I.C.S.E. GEOGRAPHY MAP PRACTICE BOOK (WITH SOLUTIONS)

FOR CLASS X

SECTION A: INTERPRETATION OF TOPOGRAPHICAL MAPS

SECTION B: MAP OF INDIA

By Manju Goel



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SECTION A: INTERPRETATION OF TOPOGRAPHICAL MAPS

Introduction

A Topographic Map shows the surface of the earth in detail. These maps are also described as Scenery Maps and are based on the actual survey of the area. These maps are also known as 'Topographical Survey Sheet' or simply 'Topo-sheet'. Maps are drawn on a number of sheets where each sheet depicts details of only one particular part of the whole area. Joined sheets give complete picture of the entire area.

The main objective of drawing these maps is to present accurately the physical and cultural features, i.e., a particular area in detail. Through the study of the maps, one gets the knowledge of the entire area in the same way as he would have got it by visiting the area.

A topographical map is similar to a physical map as it shows different physical landscape features. However, it is different in the sense that it uses contour lines to show changes in the landscape. All topographical maps show two types of features:

- (a) Physical features: These include valleys, hills, plateaus, peaks, waterfalls, etc. These are shown with the help of contour lines, i.e., the lines that join places having the same height above mean sea level. The density of the contour lines determine the shape, height and gradient of a particular area with specific features.
- (b) Cultural or Man-made features: These include roads, railways, buildings, bridges, canals, etc. These are represented by symbols which are called conventional signs or symbols.

Reading the Grid Reference

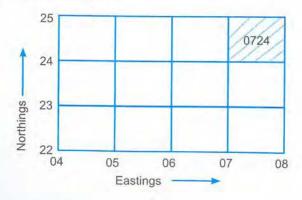
The following points, as per the convention, should be kept in mind while reading the grid reference.

- (a) The reading on the map is always taken with reference to the origin (SW corner of the map).
- (b) Eastings are always read to the East of the origin.
- (c) Northings are always read to the North of the origin.

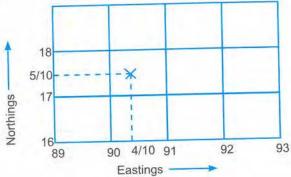
The grid can be read in two different ways:

- (i) Four figure grid reference giving location of an object.
- (ii) Six figure grid reference to pinpoint the exact position of the object.

Four Figure Grid Reference: In this, each gridline number refers to the next square, either across the map or up the map. In order to locate a particular grid square, one should first read along the bottom to find the eastings number. Then along the upside to find the northings number. The two sets of numbers give the four figure grid reference as shown in the figure.



Six Figure Grid Reference: In order to find the six figure grid reference, first divide the grid square on the topo sheet into 10 equal parts-vertically as well as horizontally. The first three figures are the Eastings and the last three are the Northings.



Suppose, the grid reference of a school in a particular area is 904175. In this grid reference, 904 is the value of eastings and 175 is the value of northings.

The most important thing to remember with six figure grid references is that we must always give the eastings values first, followed by the northings values.

Conventional Signs and Symbols

Topographical maps use different signs and symbols to represent certain relief features and human activities. These are known as Conventional Signs and Symbols. They help in giving maximum information about a place or area. They are simple to read. Many of these signs and symbols are standardized and used throughout the world. The list of signs and symbols as well as their meanings is given in the key or legend of a map. A list of relevant conventional signs is given at the bottom of each topographical sheet so as to facilitate its study.

Legend: Various types of features such as physical features, i.e., hills, peaks, knolls, etc. are depicted by means of symbols in the form of a key or legend usually at the bottom of the map. With the help of given symbols we can read the map accurately, quickly and describe the relief, drainage, land use, transport, etc. Thus, maps have their own language in which the whole art of map reading lies. This is literally known as a **legend**.

Roads, metalled: according to importance; distance stone .	*
,, unmetalled: do. do. : bridge	==== ====
Cart-track. Pack-track and pass. Foot-path with bridge	
Bridges; with piers; without. Causeway. Ford or Ferry	+++++
Streams: with track in bed; undefined. Canal	× 7 ==
Dams: masonry or rock-filled: earthwork. Weir	
River banks: shelving: steep. 3 to 6 metres ; over 6 metres	
,, dry with water channel: with island & rocks. Tidal river	0.65
Submerged rocks. Shoal. Swamp. Reeds	
Wells:lined; unlined. Tube-well. Spring. Tanks: perennial: dry.	
Embankments: road or rail: tank. Broken ground	# Q 40 3=

Railways, broad gauge : double : single with station; under constru.	-		60000	0	RS	M 808 60
,, other gauges: do. : do. distance stone; do	+++	++ ++	-+-	8	-1-	-1-1-1-
ight railway or tramway. Telegraph line. Cutting with tunnel	+	+	+ • •			
Contours. with sub-features. Form-line. Rocky slopes. Cliffs.	(QC	Y'ci	500)	(即保	C OU
Sand features:(I)flat,(2) sand-hills(permanent),(3)dunes(shifting).		0		2)		3
Towns or Villages : inhabited;deserted. Fort	-8.0	M.E.s	=		×	2
Huts: permanent; temporary. Tower. Antiquities	20	t	30	本		Bau
Temple. Chhatri. Church. Mosque. Idgaħ. Tomb. Graves	₽	A	t 1	H +	± E	~~
.ighthouse.Lightship.Buoys: lighted; unlighted. Anchorage	M	,	古	Δ	Δ	4
Mine. Vine on trellis. Grass. Scrub		[XXXXX	1	olde older	99
Palms: palmyra;other. Plantain:Conifer.Bamboo.Other trees	Q	tt tr	90	4	# #	900
Boundary. international	-	juma		Special S	9 DECIMA # 10	
,, state: demarcated; undemarcated			~	7	- ××	-x-
,, district; subdivn, tehsil or tāluk;village,forest		-				
Boundary pillars : surveyed ; unlocated; village trijunction				ū		٨
	△20	00		. 20	00	.6.
Heights.triangulated: station: point	BM	63-3	3	8.4	63-3	.20
Reights.triangulated: station: point					PTO	PS
	PO		TO			
Bench-mark: geodetic: tertiary: canal		18	TO (Can		RH (orest
Bench-mark: geodetic: tertiary: canal	PO DB				RH (I	Forest Pi

1:50,000

Miscellaneous

500



1. Stony waste — The land which is mostly covered with rock boulders and stones and where cultivation is not possible. It is shown as a white patch on the map.

6 Kilometres



Sheet rock — A region which is mostly covered by a sheet of rock, shown in white. It is also printed so.



3. Rock out crop — Subsoil is exposed in such areas and cultivation is not possible.



4. Sand dunes — Sand features shown in brown on the map formed due to wind deposition in the desert region.



5. Stone quarry — Its presence indicates the occupation of the people in the region. Also shows trade possibilities.



6. Kiln (bricks) — A trade is also an employment source.



7. Kiln (lime) — Its presence shows the trade possibilities and the people working in it.

The Following Signs are Simply Shown/Marked on the Map

- 1. Naka An outpost where tax or toll is collected.
- 2. Piao A place where drinking water is available.
- 3. Viaduct A bridge like structure carrying railway or road across a valley or other low ground.
- 4. Shelving Sloping gradually with reference to banks of a river.
- 5. Dungar Hillock
- 6. Embankment A bank or mound constructed along a tank or artificial lake to prevent flooding. Also, a raised construction built to carry a level road or railway over low-lying ground.
- 7. Khera A village
- 8. Forest rest house Used as accommodation for forest officers on duty.
- Reserved forests Forests where tree felling is prohibited by the governments concerned. On the map, it is shown with the help of the symbol R.F.

Guidelines to Read Topographical Sheets

- 1. Direction is a very important tool while reading a topographical map. On all the maps the directions are indicated by a North-South line. North always points towards true North.
- 2. Direction of the flow of river is determined by looking at spot heights which indicate the slope of the land.
- To know on which side or bank of the river a place is situated, first locate the source of the river and orient yourself accordingly. Now, towards your right is the right bank and towards your left is the left bank.
- 4. Direction of a place can easily be located by means of the 'direction arrow'.
- 5. 'As the crow flies' phrase refers to the shortest distance between two given points. It can be measured directly by using the scale or with the help of a divider.
- 6. Distance of a curved road, river or canal can be measured with the help of paper strip or thread. Place the paper strip or thread on the linear scale and calculate the distance.
- 7. The scale of the map may be used to calculate the actual distance between two points on the ground. For example, if the distance between two points A and B on the map is 4 cm and the scale of the map is 2 cm to 1 km, then the distance between them on the ground is 2 km.
 - A scale can be expressed by Representative Fractions also. For example, R.F. = 1:50,000 means that 1 cm on the map represents a distance of 50,000 cm on the ground.
- 8. In topographical maps, each grid is drawn as per the scale 2 cm = 1 km. Therefore, area of each square is
 - 2 cm × 2 cm (on the map) = 1 km × 1km (on the ground)
 - or 4 sq cm (on the map) = 1 sq km (on the ground)

In case there are some incomplete squares, the area can be calculated as follows:

- Note the number of complete squares.
- Squares covered half are taken as 1/2.
- Squares covering less than half area are taken as 1/3.

Squares covering more than half of the area are taken as 2/3.

All these estimated squares are added together and the sum is multiplied by the scale of the area.

- 9. The points at which the vertical and horizontal lines of the grid cross are called coordinates. The lines that move horizontally are known as Northings and the lines that move vertically are called Eastings. These Northings and Eastings cut across to form squares or grids.
- 10. The means of transport always depend on the type of relief and drainage pattern of a particular area.
- Legend gives an idea about the constructional signs and symbols used in the topo sheet to represent the physical and man-made features.

Study of Topographical Sheets No. $45\frac{D}{7}$ and $45\frac{D}{10}$

The topographical sheet 45^{D}_{7} shows the western part of India along the Gujarat-Rajasthan border. It covers the area of Banas Kantha district of Gujarat and the Sirohi district of Rajasthan. It extends from 24°15′ N in the South to 24°30′ N in the north and from 72°15′ E in the west to 72°30′ E in the east.

In 1958-1960, this region was surveyed under the guidance of Dr. Prithvish Nag, the then Surveyor General of India. The map was first published in 1962, drawn on an inch scale. Later it was modified and updated on the scale of 1:50,000 or 2 cm: 1 km. Therefore, the eastings and northings are drawn 2 cm apart on the map to represent 1 km on the ground. The arbitrary grid are drawn in red colour.

The topo-sheet number 45^{D}_{10} covers a maximum portion of the Sirohi district of Rajasthan and some part of the Banas Kantha district of Gujarat. This region lies in western India on the borders of Rajasthan and Gujarat at the southern end of Aravalli Hills, immediately north-east of topo-sheet 45^{D}_{7} . This region extends from 24°30' N in the south to 24°45' N in the north and from 72°30' E in the west to 72°45' E in the east.

Let us have a detailed study of these two topographical sheets frequently asked in your Board Exams. For the convenience sake we have taken the different extracts of the sheet. Each part of the sheet indicates the Eastings and Northings for the reference.

Instructions

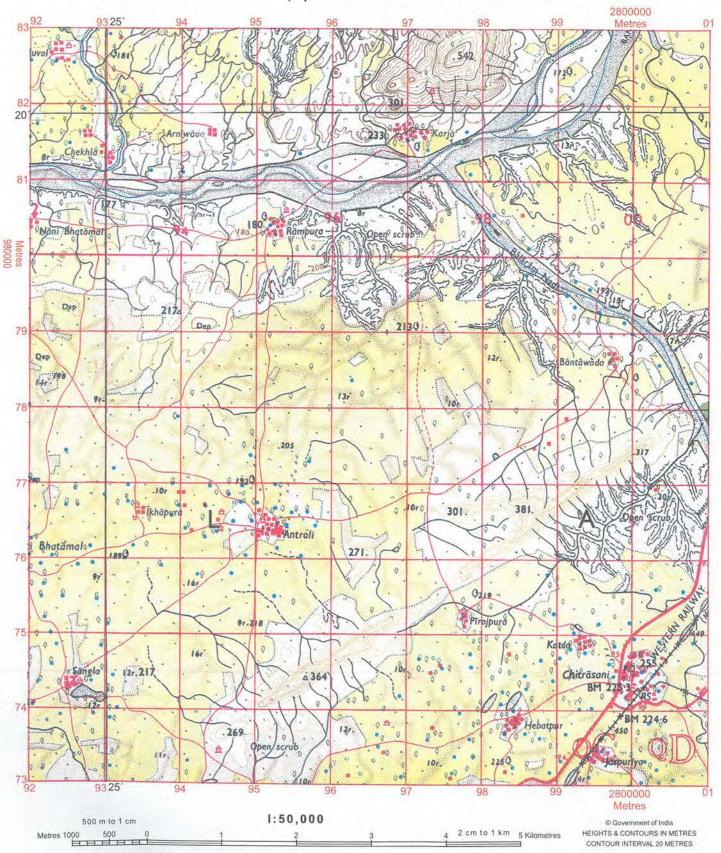
In your Board Exam you will be supplied with an extract of Topographical sheet (either from $45\frac{D}{7}$ or $45\frac{D}{10}$). Part 1 of the question paper consists of two questions (compulsory to answer).

Question 1 - 20 marks on topo-sheet and Question 2 - 10 marks on map of India.

In Question 1, you will be asked to answer 10 questions (of 2 marks each) based on given extract of topo-sheet. Read the questions carefully alongwith the topo-sheet and then one by one start answering the questions.

Question 2, is based on Map of India. You are asked to show the given 10 places (1 mark each) on the outline Map of India.

Part of Topo Sheet no 45 D/7: (Eastings: 92 to 01 and Northings: 73 to 83)



Reading Sample Topo Sheet

Study the toposheet $45\frac{D}{7}$ (Eastings 92 to 01 and Northings 73 to 83) printed on page number 10.

- (a) Give the six-figure grid reference of
 - (i) ∆ 364
 - (ii) The temple at Rampura

Ans. (i) 957744, 956744 (any one)

- (ii) 954806
- (b) Mention any two features seen in the map extract which show that the region has seasonal rainfall.
- Ans. Dry streams, dry tanks, broken ground, dry water channel. (any two).
 - (c) Calculate the distance in kilometres along the cart-track linking Juvol (923826) and Arniwada (944817).
- Ans. 2 km to 2.7 kms.
 - (d) Which is the chief form of irrigation shown in the map extract? Give an evidence to justify your answer.

Ans. Lined wells

Large no. of wells with blue dots.

(e) Give one reason to explain why the streams in grid square 9478 do not join a river. Identify another grid square in the map extract that has similar streams.

Ans. Sandy soil

The streams do not join main river because they seep into sand.

9676, 9677, 9375, 9378, 9674, 9776 (any one)

- (f) What do the following represent:
 - (i) Black broken lines in 9575.
 - (ii) Black curved lines in 9879.
- **Ans.** (i) Undefined streams or intermittent or disappearing streams.
 - (ii) Broken ground or broken land.
 - (g) Identify two landforms shown by the contours in grid square 9876.

Ans. Conical hill, ridge, steep, slope, col, saddle, spur watershed or water divide (any two), escarpment.

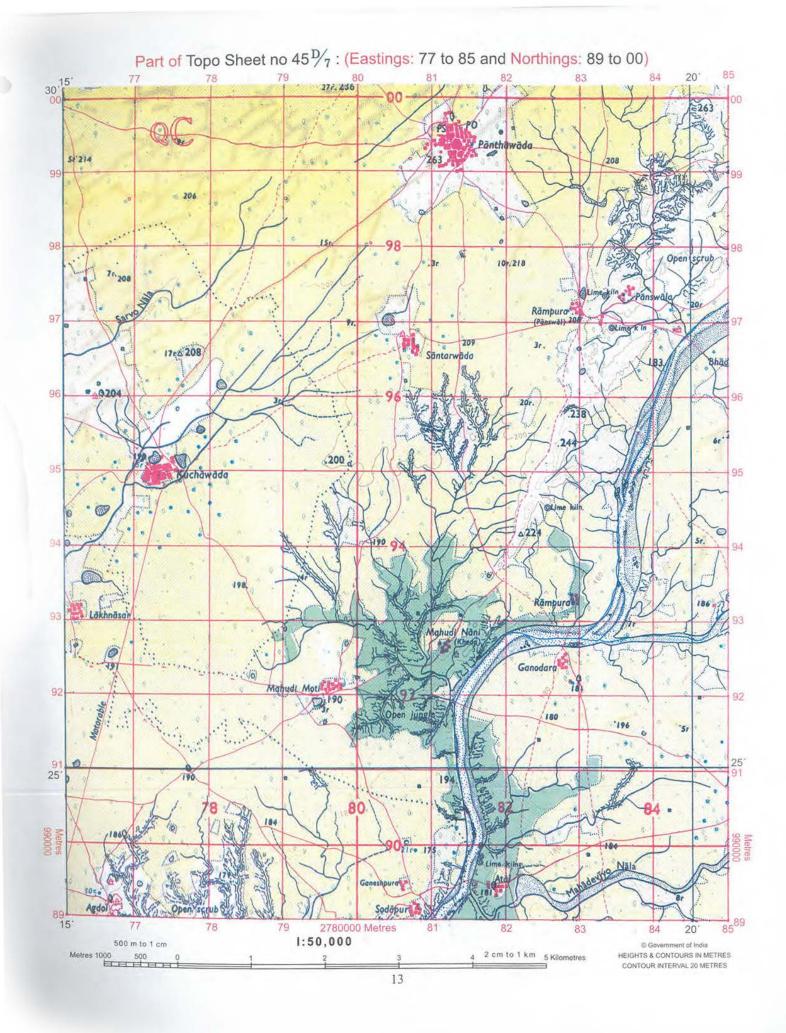
- (h) (i) What is the general direction of the Balaram nadi?
 - (ii) Which bank of the main river does the Balaram nadi join?

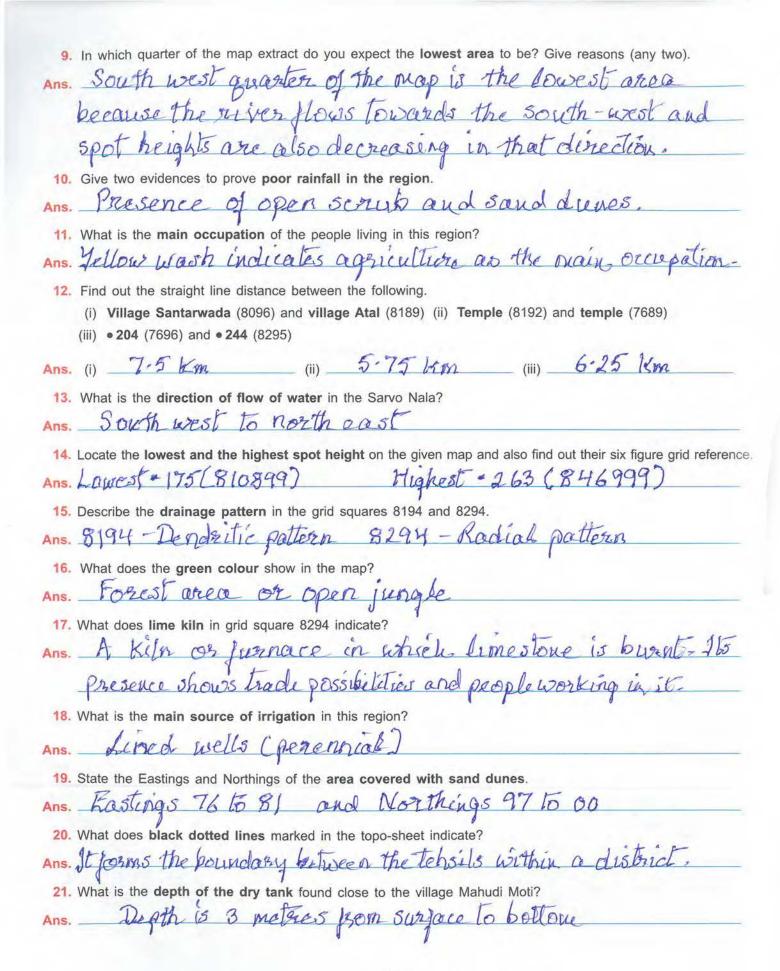
Ans. (i) SE to NW

- (ii) Left bank
- (i) What is the main occupation of the people living in the area shown in the map extract? Give one reason to support your answer.
- Ans. (i) Agriculture, cultivation or farming (any one)
 - (ii) Large no. of wells, yellow wash, coloured yellow.
 - (j) What is meant by scale of a map? What is the scale of the map extract provided to you?
- Ans. (i) The scale of a map is the ratio between the distance on the map and the corresponding distance on the ground.
 - (ii) The scale of the map extract is 1:50,000 or 2 cm to 1 km or 1 cm to 500 m.

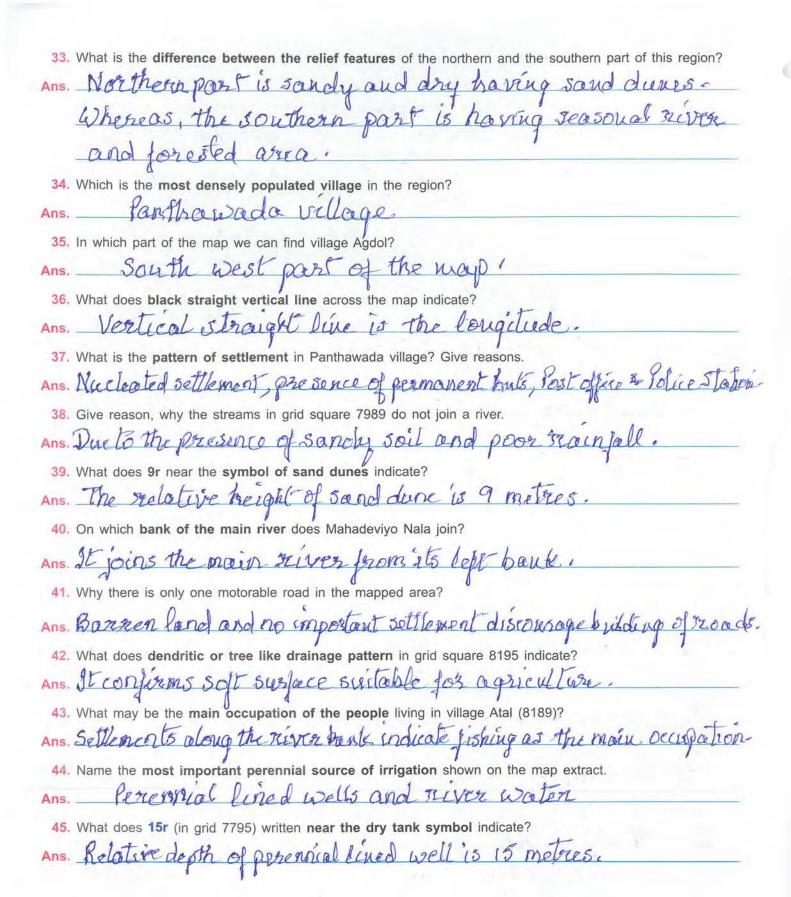
Study the Topo Sheet No. 45 $^{\rm D}\!/_{\rm 7}$ (Eastings 77 to 85, Northings 89 to 00) printed on page no. 13 and answer the following questions:

1.	Give the six figure grid reference for the following : (i) △224 (iii) Surveyed tree near Ganodara village		Tanks near village Kuchawada
Ans.	0000110	(IV)	Temple at village Santarwada 773952/776952
Milo.	(iii) 830923		806968
2.	Give the four figure grid reference for the following :		
	(i) Dry tank north of Santarwada	(ii)	△208 north of Kuchawada
	(iii) Lined well in village Agdol	(iv)	Settlement Mahudi Moti
Ans.	(i)8097	(ii)	7796
	(iii) <u>7689</u>	(iv)	7992
3.	What is the meaning of the following symbols?		
	(i) ⊚ Lime Kiln in grid square 8294	(ii)	PO in grid square 8199
	(iii) 3r in grid square 7895	(iv)	in grid square 7991
Ans.	(i) A kiln for builting limestone	(ii)	Post Office
	(III) Relative height of siver bank 3 metros		
4.	Give the directions of the following:		
	(i) Lime kiln (8397) from Mahudi Moti (7992)		Village Rampura (8293) from temple (7689)
	(iii) Village Santarwada (8096) from village Kuchawada	(iv)	Open Jungle (8091) from Open Scrub (8497)
Ans.	(i) North East	(ii)	North East
	(iii) North East	(iv)	South West
5.	Give reasons for the broken ground, in grid square 819	90.	
Ans.	It is an axid region where lop	5	oil get easily enoded que
	to flooding in the rainy se	Ci	ion.
6.	Find out the area in square kilometres of the region encl	osed	by Eastings 77 and 83 and Northings 92 and 97.
ans.	Area is 30 square Kilor	-	
7.	What is the length of the motorable track in south we	st pa	rt of the region (in kilometers)?
lns.	Approximately 5-25 lem.		
8,	Find out one physical and one man-made feature in g	rid s	quare 8192.
Ans.	Broken ground and tem	ale	

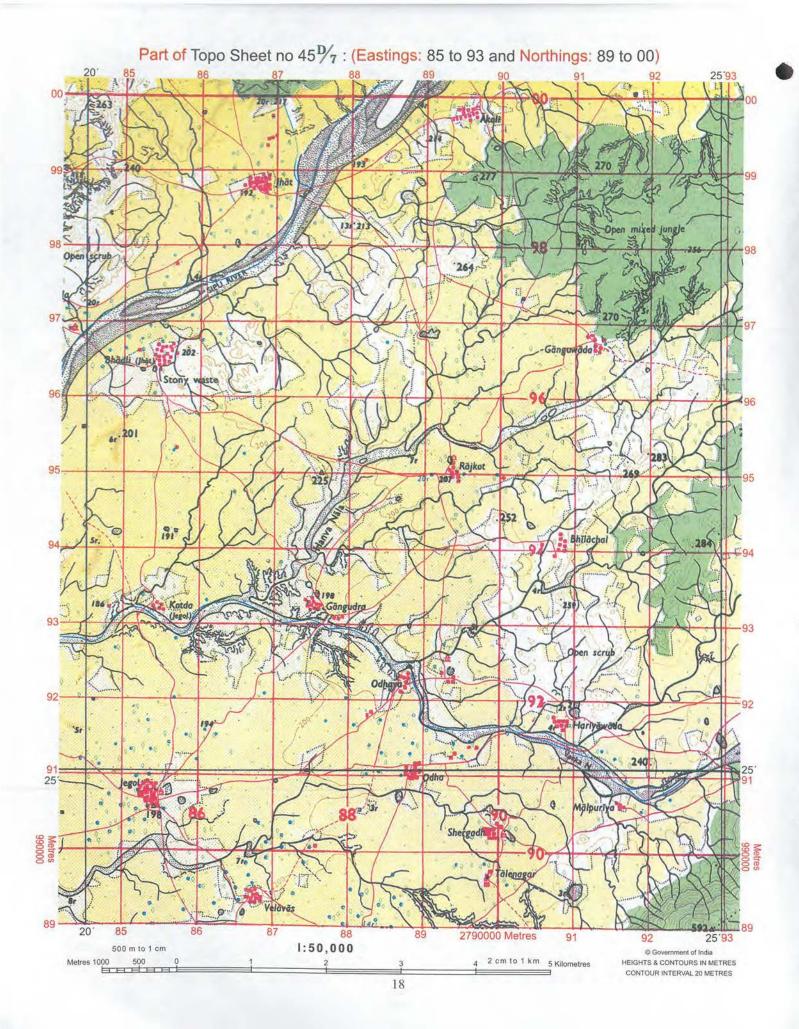




22.	Find out straight line distance between the following:
	(i) Village Lakhnasar from Rampura (ii) Lime kiln (in 8189) and lime kiln (in 8396)
	(iii) Surveyed tree in 8392 and village Ganeshpura (iv) Village Kuchawada and village Panthawada
Ans.	(i) 6.5 Km approximately (ii) 7-25 km approximately
	(iii) 3.5 km. approximately (iv) 6.0 km-approximately
23.	What does the brown wavy patch in the north west corner of this topo-sheet indicate?
Ans.	It indicates the sandy region having soud ancres
24.	Mention the name of the Nala on the eastern side of the river.
Ans.	Mahadeviyo Nala
25.	What is the general drainage pattern along the streams?
Ans.	Dendretic dramage pattern
26.	What type of river is flowing in the region?
Ans.	Seasonal suver having water in the rainy Jeason only.
27.	Name the man-made feature in grid 7991.
Ans.	Dry lant with embankment
28.	Name the natural feature in grid 7799.
Ans.	Sanddunes
29.	Give the four figure grid reference of confluence of main river and Mahadeviyo Nala.
Ans.	8189
30.	What is stony waste? How is it shown on this map?
Ans.	The land which is mostly covered with rock boulders
	and stones and whose cultivation is not possible.
	It is shown as a white patch on the map!
31.	What does the term 'Khera' mean given in grid square 8192?
Ans.	The term khora means a village.
32.	Is the region shown on the map thinly populated or densely populated? Give reasons.
	It is thinly populated as it shows less settlement. Most part
	of the map is sandy and dry, therefore, the region is not
	well do reloved.



1.	Give	the four figure grid reference for the following	÷	
***		Village Gangudra		Stony waste south of Sipu river
	(iii)	Joining point of Hanva and Varka Nalas		Δ 277 in the north eastern part
Ans.	(i)	8793	(ii)	8596
	(iii)	8693	(iv)	8998
2.	Give	the six figure grid reference for the following :		
	(i)	Dry tank in village Jegol	(ii)	Mosque near village Rajkot
	(iii)	Village Kotda	(iv)	• 256 in open mixed jungle
Ans.	(i)	858906	(ii)	894953
	(iii)	856932	(iv)	925979
3.	Give	the direction of the following:		
	(i)	Gangudra from Rajkot	(ii)	Hariyawada from Bhilachal
	(iii)	Akoli from Bhadli	(iv)	Jhat from Talenagar
Ans.	(i)	South west	(ii)	South
	(iii)	North east	(iv)	North west
4.	Find	out the straight line distance between :		
		△277 and △225	(ii)	Village Jhat and village Gangudra
Ans.	(i)	4.5 Km	(ii)	5.5 Km
5.	State	e the drainage pattern in grid square 9295.		
		& shows Trellis patterna	D +6	e situatories orre mostrice
		nain river at right angles,	000	- one area con we say
C		,	Dalles	
	rina	out the actual length of track between Jhat and	1	P4
Ans.	VA/l- a	5.25 Km. approximale	1	
		at does blue line within river channel Sipu indic	1	1
Ans.	-	Dry Tiver with water c	row	let.
		hich direction the river Sipu flows? Give reaso		
Ans.	Ri	ver is flowing from north	easi	t to south west, because
		pot height is decreasing to		



9.		ion enclosed by Eastings 87 to 92 and Northings 90 to 92.
Ans.	10 Square Gilometre	
10.	What is the meaning of the following conventional s	signs?
	(i) 200 in grid square 8789	(ii) 7r in grid square 8689.
	(iii) Stony waste in grid square 8596.	(iv) 3r in grid square 9089
Ans.	(i) Contour of 200 m. heigh	
	(iii) Barren land having stones	(iv) Relative height of exnaukment is 31
11.	Give reason why some of the land in the area show	vn on the map is not cultivated?
Ans.		l is barren and the presence of
	sand dunas makes cultiva	trou difficult-
12.	What is the main mode of irrigation throughout the	e year in the region represented by the map?
Ans.	Main mode of erregation is	perennial Rived wolls and ziver
	water. A runber of blue do	to can be seen on the neap. The
	suver has a varisow cha	nuel of water.
13.	Give six figure grid reference of the following :	
	(i) Δ 225 in the central part of this extract of topo-she	eet (ii) Village Odhava
	(iii) 3r near village Odha	(iv) Temple in village Jegol
Ans.	(i) 877950	(ii) 888923
	(iii) <u>884906</u>	(iv) 856907
14	State the meaning of the following aumbels :	
	State the meaning of the following symbols : (i) •252 (in 9094)	(ii) Summer 14 A C 2000)
	(1) \$252 (11 5054)	(ii) Surveyed tree 4 (in 9090)
	(III) Permanent hut in 9190	(iv) Broken land (in 8989)
Ans.	(i) Il shows spot neight ie.	(iv) Broken land (in 8989) The actual height above the
	mon sea level.	ď
		was on their tosuks They some
	as landwarks and are not	allowed to be cut
	(iii) These are the dwellings	where people live
	permonently.	
		s of stream where the top soil gets
	easily enoded due to floe	oding during rainy season.
	,	J J

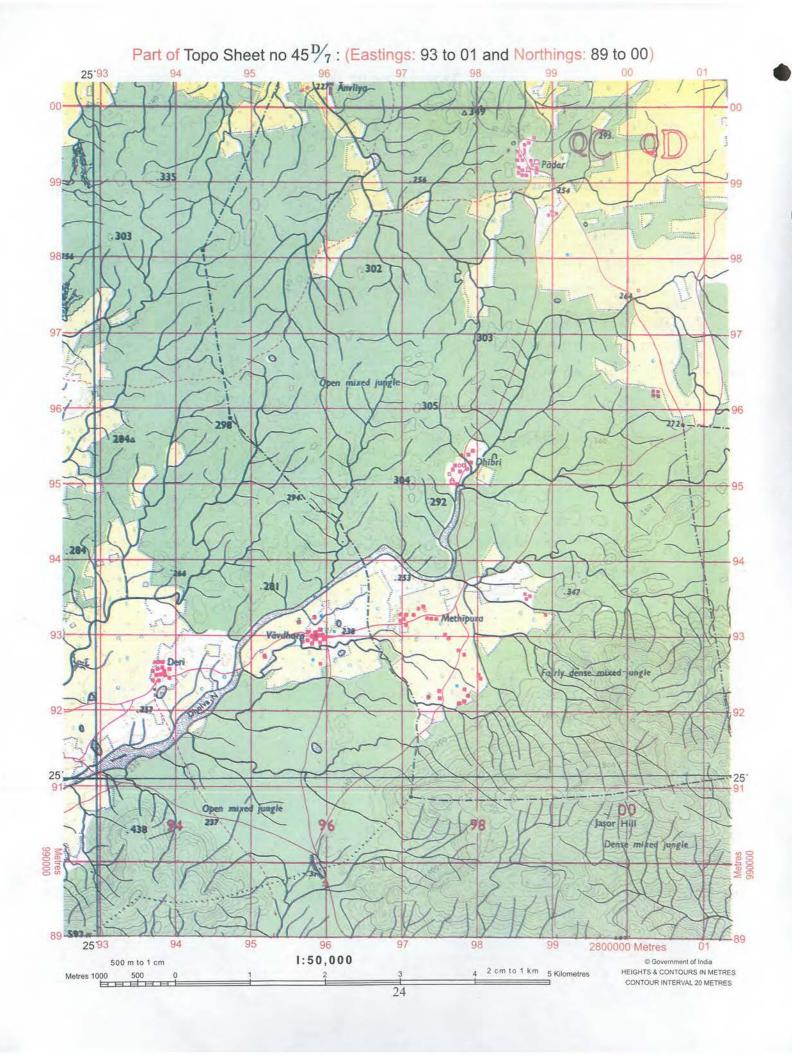
15.	Name any two natural features in grid square 8597.
Ans.	Sipu river and its tributary Yellow washie, cultivable land
16.	State two man-made features in village Rajkot.
Ans.	Permanent huts and mosque
Ans.	What does the tank in grid 9189 indicate? It indicates a seasonal or day tank with rock juled embankment.
18.	What is the general pattern of settlement in the region?
Ans.	Most part of the region has nucleated settlement.
19.	What does the black straight line (horizontal) across the map indicate?
Ans.	It is the latitude drawn from west to east.
20.	What type of rainfall is experienced in the region shown in the map extract? Justify your answer giving one reason
Ans.	Seasonal nainfall. Evidences include, dry tanks,
	dry water channels or rivers, soud features, broken grounds
21.	What are the brown lines drawn in grid square 9293? What do they show?
Ans.	These are the contours. Contour is an imaginary lune drawn
	on a map joining places of equal elevation.
22.	What do so many contour (brown colour) lines drawn so close together in grid square 9289 indicate about
	It indicates hilly region having very steep
Ans.	slopes.
23.	Draw the conventional symbols showing:
	(i) Tank (dry) (ii) Perennial wells
Ans.	(i)
	(ii)
24.	What is the meaning of the following conventional signs? (i) Brown lines in grid square 8696 (ii) in grid square 8590
Ans	(i) Contour lines joining places of equal trought.
	Regennial lived usell

25. Give the direction of the following:	
(i) Village Bhadli (Jhat) (8596) from Jegol (8590)	
(ii) Open Mixed Jungle (9198) from open scrub (9	192)
Ans. (i) North	(ii) North East
26. Find out the straight line distance between the following	ng:
(i) Temple (8992) and mosque (8995)	(ii) •264 (8997) from •256 (9297)
Ans. (i) 2.75 Km. capproximately	(ii) 3 km approximately
27. State the direction of flow of water in Varka Nala. C	Give one reason.
Ans. It flows from South East to	North West, because the
spot height is docreasing	from cost to west part
of the map.	
28. What does the symbol PoP all over the map extract	ct show?
Ans. It shows deciduous trees four	
29. Give the direction of the following:	V
(i) Village Velavas (8689) from village Odhava (88	92) (ii) Kotda (8593) from Gangudra (8793)
0 4 . 1	ozy (ii) Tiotaa (oooo) iioiii ballgaala (oroo)
Ans. (i) South West	
(ii) West	
30. What do the brown dots in grid square 8699 indicate	9?
Ans. It indicates sandy desert w	the sand dunes.
Y	
31. Measure the actual distance between Bhadli (8596)	and Gangudra .
Ans. 5 Km approximately	
32. South eastern part of the map extract shows hilly regi	ion in green colour. What does it mean?
Ans. Hilly region has dense forest	b D
engaged in lumbering or jo	restry.
33. What is meant by relative height 3r written on the m	
Ans. It means that the concern	red place is higher by 3 metre
Than its natural place or.	surrounding areas.
34. What do red dotted lines in grid square 8593 show?	,
Ans. It shows pack-track Chagdano	
by men or animals to travel	

Ans. It shows the direction of the flow of ziver water.
36. Name at least three man-made features in grid square 8992. Ans. Permonent huts, temple and cart tracks
37. State the type of Nala in grid square 8589. Ans. Non-generical Mala or seasonal Nala:
38. Where do you find wasteland in this map extract? Ans. White patches show we steland in North best and South Fast.
39. In which part of the map main occupation is forestry and lumbering? Ans. Green coloured region in Hoth Eastern and South Eastern for
40. How the settlements are linked with each other in this region? Ans. Settlements are linked by cart tracks or foot paths only
41. What is the average height of hilly region? Ans. The hills in this region rise steeply from 200 m- and
have peaks exceeding 500 metres, 42. Why there are no metalled roads in this region? Ans. Because the region is sandy and the lowland is not Our letter Not It has an analylating surface as shown by
perfectly flat. It has an undulating surface as shown by small enclosed contours indicating low hills.
43. Is this region easily accessible from other parts of India? Give reasons (any two). Ans. There are no 300015 or railway lines in the entire area.
This means that the region is not easily accessible. 44. Is there any possibility of lumbering on a commercial scale in this region? Ans. No, Decause this region does not have transpost facilities.
45. Name any two natural features in each of the following grid squares. (i) 8992 (ii) 8597 (iii) 9297
Ans. (i) Sandy region and disappearing streams (ii) Sandy region and Sipe river
(iii) Open nixed jungle and broken land.

Study the Topo Sheet No.	45 D/7 (Eas	tings 93 to 0	1, and Northing	s 89 to 00) printed	on page	no. 24 and	answer
the following questions:								

1. Give four figure grid reference for the following:	
(i) Village Methipura	(ii) Village Padar in north eastern part
(iii) • 438 in the south west corner	(iv) △349 in the north
Ans. (i) 9793	(ii) 9899
(iii) <u>9390</u>	(iv) 9799
2. Give the direction of the following	
(i) Methipura from Padar	(ii) Dhibri (9795) from Deri (9392)
(iii) Temple (9795) from Methipura	(iv) Jasor hill from Vavdhara (9592)
Ans. (i) South West	(ii) North Fast
(iii) North	(iv) South East
3. Draw the conventional symbol for the following:	
(i) Seasonal river	(ii) State boundary
Ans. (i)	(ii)
4. Find out the actual length of the following:	
(i) Track between Deri and Methipura villages	(ii) North to south length of the map
Ans. (i) 4 km approximately	(ii)
5. Find out two physical and two man-made features	in the grid aguera 0000
	streams and green wash yorst
Mon-mode justieres - Permone	at hiets and temple
6. What is the location of the Jasor Hill on map extra	
Ans. Southeastern part of the w	
7. Give the drainage pattern in the grid square 9896.	1
Ane Trell's portion as the stormes as	Cossing As Sur Street A Solt
	Josking wain miver at right augh
8. What is the settlement pattern in grid square 9792?	
Ans. Scattered or dispossed set	lement.
9. What is the direction of water flow in the Dholva Na	ala? Give some evidence to support your answer
Ans. North east to snoth wast no the	Dan by black aterous in the Nala
	0
10. What is the height of the contours in grid square 00	094?
Ans. 260 Me Bes.	



11. What does yellow colour show in the map?
Ans. It shows cultivable land-
12. What do so many contour lines so close together in the extract indicate about the topography?
Ans. Very steep hilly land and presence of correal hills.
13. Give two reasons for the presence of footpath in the south western part of the map.
Ans. * Steep and rugged terrain makes construction of roads defficul
. It may be exected by people who depend on forest produce.
14. How can we draw a climatic inference from a topo-sheet?
Ans. Presence of dry river or dry tank indicates that the area
experiences scanty rainfall with dry weather-
15. What occupations do the people follow in highland areas shown in the map extract?
Ans. Forestry as the main occupation. Pastures may be fit for grazing.
16. What type of drainage pattern is to be seen in the grid square 9390? Justify your answer.
Ans. Radial drawage pottern. Streams are flowing outward formany
a pottern like the spokes of a wheel.
17. What does the white patch in grid square 9893 indicate?
Ans. Rockyarea or bad land, hence uncultivable.
18. What does 3r written in the tank in grid square 9589 indicate?
Ans. Relative neight of the tank is 3 metres above sea level.
19. Calculate the area in square kilometers, of the region enclosed by Eastings 96 to 99 and Northings 92 to 99.
Ans. Since 2 cm = 1 km, the total assec is 215g low.
20. Give the drainage pattern in the
(i) grid square 9790 (ii) grid square 9891 Ans. (i) Radial drainage pattern (ii) Radial drainage pattern
21. State the importance of forests in this region. Ans. Undusting hills support dry decideous forests in this region. It is rich in floral diversity, particularly medicinal plants.
22. What are the different means of irrigation in this region? Give at least two reasons to support your answer. Ans. Blue Round dols represent personnial lined wells and Dholva
Nala has water available in the rainy reason.

Ans. Lellow colour indicates cultivable land switchle for farming.
Mountairous region in green shows lumbering or forestry occupation
24. What type of relief feature is present in grid square 9389? Justify your answer. Ans. Watershed which separates the tributaries drawing towards
One side of it from those drawing towards the other side.
25. Identify the landforms shown by the contours in grid square 9990. Give evidence to support your answer.
Ans. It shows the conical hill with steep slopes and a
broad base Contours are almost circular with peak
of the hill as their centre.
26. Give four figure grid reference for the following:
 (i) South western part of Dholva Nala with black arrow (ii) ● 335 in north west
(iii) State boundary meets the Tehsil boundary
0001 0000 000
Ans. (i) 9391 (ii) 7399 (iii) 7790
27. What does the green colour in grid square 0098 indicate?
Ans. Light green colour shows grasslands and shrubs.
28. How do the people cross Dholva Nala?
Ans. Through jootpath and cart track
29. What do black curved lines in grid square 0089 show?
Ans. Seasonal streams
30. What do brown circles in grid square 9798 indicate?
Ans. This shows the low lying hills.
31. Why the water flow in Dholva Nala is from North East to South West?
Ans. In this map extract spot height is decreasing from north-
east to south west. Water always flow from highlands to low lands
32. Give the name of the following symbols :
(i) <u>(ii)</u> (iii) (iii)
Ans. (i) Temple (ii) Temposary hat (iii) Contours
33. State the spot height in the following grid square :
(i) 9993 (ii) 9593 (iii) 9999
Ans. (i) 347 (ii) 281 (iii) 295

34. What is the actual distance between village Dhibri and Padar?
Ans. 4.25 Km. approximately.
35. What is the maximum height of relief features given in this map extract? Give evidence.
Ans. Maximien height of the land is 800 metres as shown
by contours in grid square 9991.
36. What do brown lines drawn close to each other in grid square 9991 indicate?
Ans. These indicate steep hills (Jasor Hill)
37. Why is there no settlement in the southern part of the region?
Ans. Most part is covered with deuse viened jungle, thus not habital
38. What is the lowest spot height in this map extract? Mention the grid reference.
Ans. Lowest spot height is 237 in gred square 9490.
39. Is Dholva Nala having water flow throughout the year? Give evidence.
Ans. No, it is seasonal having water in the rainy season only It
white with black dots. It is not blue in colour =
40. What is meant by 22r written in grid square 9898? Ans. The relative depth of pereunial well is 22 metzes.
41. What type of drainage pattern is seen in grid square 9896? Give proof of your answer. Ans. Trellised pattern showing parallel streams joining The Main river at right angles.
42. What are the conventional signs (any two) located at the points the six figure grid reference of which are :
(i) 995985 (ii) 958964
Ans. (i) @ Dry tout Cost track
(ii) ~ Suasonalstream @ Contours
43. Why contour lines are very close to each other in grid square 9790? What does it show?
Ans. It shows sleep slope with v-shoped valleys.
44. State two man-made features in grid square 9689. Ans. Cart track and temple
45. Which is the highest trignometrical station? State the height and the grid number where it is located. Ans. A 349. It is located in grid square 9799.

Study the Topo Sheet No. 45 $^{\rm D}\!/_{\rm 7}$ (Eastings 77 to 85 and Nothe following questions:	orthings 80 to 91) printed on page no. 29 and answer
1. What is the meaning of the following symbols?	
(i) IB in grid square 8480	(ii) 8r in grid square 8282
Ans. (i) Inspection Bungalow	(ii) Relative height of river bank is 8 metres,
2. Give the four figure grid reference for the following:	
(i) Dense jungle in the western part	(ii) ∆179 near open jungle
Ans. (i) 7785	(ii) 8187
 Give six figure grid reference for the following: (i) PO in Southeast 	(ii) Lined well in village Latiya
Ans. (i) 844806	(ii) 792808
4. State the drainage pattern in grid square 8381. Ans. Dendritic drainage patter	n
5. List the modes of transport you find in the map extra Ans. Cart Frack, unmetalled road	act.
6. Is the area likely to develop in the future? Give reason	
Ans. Yes, because it has Post Office, 18	The state of the s
7. What is the main occupation of people shown in the man Ans. Agriculture is the main occupation of people shown in the main occupation of the main occupation of the people shown in the main occupation of the people shown in the main occupation of the people shown in the main occupation	
construction and line making	in line kiln (8189).
8. What inference can be drawn from the black lines for Ans. Black lines indicate broken	
exosion along the river bank	es. The area has seasonal rainfall.
9. What is the slope of the area given in the map extra Ans. Slope is towards south to south	ct? Give reasons for your answer. WEST'S because Signe Fire
flows south west as indicated be	y black arrow.
10. Describe the relief of the area.	
Ans. Mainly a plain level land- Sipu	and Banas nivers flow with its
tributaries. Both rivers have per	enrial narrow water channel.
11. If you walk downstream along the Banas river, which would you see on your right?	features would you see on your left and which features
Right-Sazod Nala, bizaken as ou	end, canal under construction
Picht-Sazod Nala, bozakou azou	nel and open seemb.

Part of Topo Sheet no $45^{\mathrm{D}}/_{7}$: (Eastings: 77 to 85 and Northings: 80 to 91) 190 190 -88 Open jungle 4179 195 Bhadli Kotho 20 Skariya Mahādēvplu 80 mid 20 500 m to 1 cm 1:50,000 @ Government of India 4 2 cm to 1 km 5 Kilometres Metres 1000 500 HEIGHTS & CONTOURS IN METRES CONTOUR INTERVAL 20 METRES 29

12. State two differences between the Sipu river and the Mahadeviyo Nala.
Ans. (i) River has perennial channel but Nala is completely dry-
(ii) River is broad, whereas Nala is naturow.
13. What is the compass direction of Bhakodar (8188) from Chodungri (8386)?
Ans. North West
14. What is the geographical name that you would give to the general pattern of settlement in the region shown on the map? Give a reason for your answer.
Ans. Nucleated because permonent huts are clustered.
15. Find out the actual distance to be travelled between the following:
(i) Length of track between Lime Kiln (8189) and Bhadli Kotha (7886)
(ii) Length of track between Sikariya (8081) and Nandotra (8282)
Ans. (i) 6.5 km approximately (ii) 3.75 km approximately
16. What is the blue line running through the Banas river? What does it indicate?
Ans. It indicates that the river is not totally dry. It has
water in the rowy season.
17. Give the direction of the following:
(i) Village Atal (8189) from village Kotha (7786) (ii) Village Vasda (7780) from village Godh (7782)
Ans. (i) North East direction (ii) South direction
18. Why do we find more settlement along the main river? Give two reasons.
Ans. 42 Availabelity of water for cultivation
in Easier for communication eg. Travelling to other towns
19. Find out the total length of the tehsil boundaries which pass through the Sipu and Banas rivers.
Ans. 19 Km approximately
20. Find out the general flow of Sipu and the Banas rivers. Give evidence to prove your answer.
Ans. Rivers are flowing from north-east to south west as shown
by block arrows. Spot height is also decreasing in this direction-
21. What does Δ179 written in grid square 8187 indicate? What is meant by it?
Ans. It shows triangulated hoightie, the neight of a point
surveyed by the triangulation method.
22. What do black dotted lines (dash) in grid square 8388 indicate?
Ans. It shows undefened stiver streams

23. What does black symbol in the shape of tree in grid square 8189 indicate?	
Ans. Surveyed tree - It is used as a landmank.	
24. What is the meaning of the following symbol?	
(i) ==== in grid square 8481 (ii) in grid square 7987	
Ans. (i) Unmetalled road (ii) Water channel in river bed	
25. Give the meaning of figure 180 written in grid square 8287.	
Ans. Contour ie on imaginary line joining places having beight of 130 ne	tres
26. State three advantages that settlement in south east (south of river Banas) has over other settlements in the region	٦.
Ans. 11 Inspection Bringalow	
(11) Post Office	
(iii) Unavetabled road and close to canal under construction.	
27. What is the meaning of the following?	
(i) White coloured area in grid square 8383 (ii) Open scrub in north west	
Ans. (i) Uncultivated land or bad land.	
(ii) Open dry land with screek as the vegetation.	
28. Give the brief description about the soil found in this region.	
Ans. darge part of land is sandy, with broken ground near water co	wish
29. Measure the actual distance between the following:	
(i) Village Medo and village Atal (ii) Temple at Agdol and village Chatrala	
Ans. (i) 2-5 Km approximately (ii) 6.5 Km approximately	
30. Give two reasons to explain why the streams in grid square 8280 do not join the main river.	
Ans. 11) Due to presence of sandy soil which is porous.	
(i) Foor of scanty rainfall.	
31. What does black dotted lines in grid square 7781 indicate?	
Ans. It shows the Tehsil boundary,	
32. What type of drainage pattern is present in grid square (i) 8381 (ii) 7889?	
Ans. (i) Dendritie Pattern (ii) Dendritie pattern	Α.
33. What does the green colour along the left bank of Sipu River indicate?	
Ans. It has open and dense jungle suitable for jorestry and lumber	ning
34. What may be the occupation of the people living in Bhakodar settlment?	1
Ans. People may be dependent on forest produce or forestry.	
They must be practising primitive agriculture also.	
I was former permitter confiction of 150 %	

35. Name the geographical feature in the middle of the river in grid square 8382 represented by white patches.		
Ans. It regresonts an island or rocky surface.		
36. Name three rivers in the map extract and distinguish		
Ans. Sign - how more sediment and p	exential waler channel	
Banas - main xiver in south with more sederient & pereuxial water chammel.		
Mahadeviy o Nala Tributary of Sipe niver, totally dry.		
37. What kind of vegetation is found in the map extract?		
Ans. Tropical deciduous jorests an	of thorny shrubs, except few	
areas along Sipre river have d	ense jurgle or forests.	
38. State the chief mode of irrigation in the map extract future?	Which other mode of irrigation is likely to develop in the	
Ans. Perennial wells and water cha	eanel, canalunder construction	
39. Give the four figure grid reference of the following:		
(i) Ganeshpura	(ii) Nandotra	
Ans. (i) 8089	(ii) 8281/8282	
40. Sipu river has a perennial channel, whereas, Mahady	riyo Nala is completely dry. Give any one reason for it.	
Ans. Because it gets water in the rainey reason and seco sound streams are joining.		
41. Find out the length of the metalled road in the sou	th eastern part of the map.	
Ans. It is approximately 4 km long	unnetalled road.	
42. Find out the straight line map distance between:		
(i) Bhakodar (8188) and Godh (7782)	(ii) Chodungri (8386) and Vasda (7780)	
Ans. (i) 6.5 Km approximately	(ii) 8 km. approximately	
43. Name any two man-made features present in grid s	square 8480.	
Ans. Inspection Bungalow and Po	ot Office.	
44. What does the black circles in Sipu river in grid so		
Ans. It indicates shool Csubmerged se	ode) je, an aroa of shallow water	
45. Why there is no motorable road on the western and	north western part of map extract?	
Ans. Because of broken land or bad land present in the regions.		

Study the Topo Sheet No. 45 $^{\rm D}\!/_{\rm 7}$ (Eastings 85 to 93 and No the following questions:	orthings 80 to 91) printed on page no. 34 and answer
1. Give the direction of the following:	
(i) Settlement Dantiwada (8582) from Nani Bhatamal	(9280)
(ii) Settlement Jegol (8590) from Ratanpur	
Ans. (i) West direction	(ii) North west direction
2. Measure straight line distance between the following	
(i) Mosque (9282) and temple (9080)	(ii) Marwada (8685) and Police Outpost (8482)
Ans. (i) 3 Km approximately	(ii) 2-5 Km approximately
What type of rainfall is experienced in the region shorteness.	
Ans. Presence of dry streams indi	cate seasonal trainfall
4. What is the main relief feature seen in grid square 92	
Ans. Conical hill or conical peak	T
5. State the pattern of human settlement in grid square	8989. Justify your answer.
Ans. Linear settlement. Hets are	no a like on on side of
the cart track.	
6. What inference even be drawn about the general occup	pation of the people of the region shown in the western
half of the map extract? Give one reason to justify you	r answer, ,
Ans. Agriculture is the main oc	ciepation.
Reason: presence of yellow	wash and parennial lined well
7. Calculate the distance in km along the cart track betw	een Velavas (8689) and Ranol (8888)
Ans. 2 km approximately.	our voluvuo (oooo) uhu rumor (oooo).
,,	
8. Give the four figure grid reference for the following:	(II) 1.01
(i) Village Chekhla in the southern part	(ii) Village Jegol in the north western part
Ans. (i) 9281	(ii) <u>8590</u>
9. Give the six figure grid reference for the following :	
(i) 8r point near Chekhla	(ii) Temple in village Ranavas
Ans. (i) 923813	(ii) 907805
	111/
10. What is the meaning of the following symbols?	

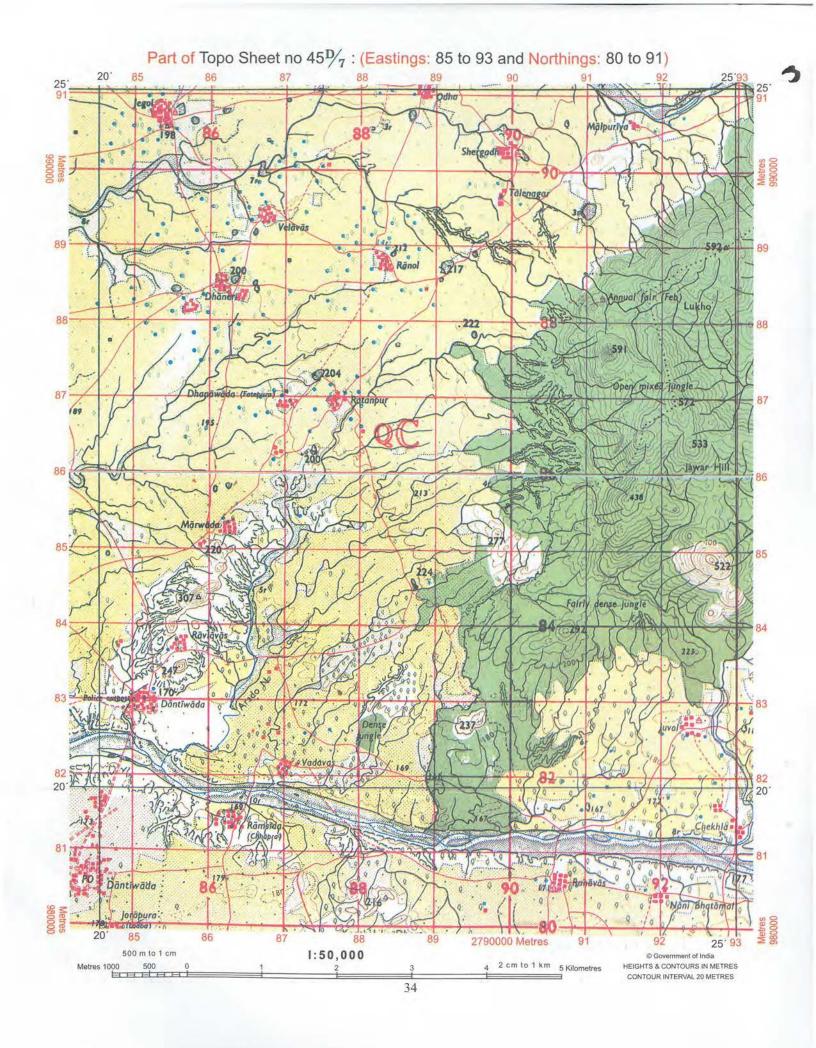
11. State the main source of irrigation of Dhanawada (Fatepura).

ns. Ferennial lined wells

(i) In grid square (9182)

Ans. (i) Seasonal Stream

(ii) in the northwest corner



12. Prove that seasonal rainfall is experienced in the region shown in the map extract	. Justify your answer giving
Ans. RIVERS are dry with a warrow water chas	indicating
seasonal rainfall Cart tracks are remaing right	- 1
13. Name at least two man-made features in grid square	
(i) 8688 (ii) 8582	And the second
Ans. (i) Permonent huts, cart tracks (ii) Unmetalled is	ood, pernevert hut
14. Name at least two natural features in grid square	
(i) 8690 (ii) 9288	
Ans. (i) Undeferred stream, sandy soil (ii) Sensoual stre	ours, forest region
15. What is the general slope of the land, especially in the forested areas? Give evide	nce.
Ans. Land is sloping from NE to Sis. In NE the spot	beight is 592
and in 3 to the lowest point is . 159 in grid s	quate 8681.
16. What are the modes of irrigation found in the area? Give reasons for their abundant	nce.
Ans. Petennial kined wells because the area ge	to seasonal
rainfall and it has a high water table.	
17. What is the contour interval in this map extract?	
Ans. Coulous interval is 20 meteres.	
18. State the general direction of Ardo Nadi. What does the blue line in the Ardo Nadi	indicate?
Ans. Discetion is from NE to SW. Blue line indicates pe	rennial water change
18. What does /r in grid square 8689 indicate?	
Ans. Relative depth of perenxial lined well is 7 metres fro	surface to the botto
20. Give one reason to explain why the streams in grid square 8782 do not join the manner of the square 8782 do not join the manner of the square 8782 do not join the manner of the square 8782 do not join the manner of the square 8782 do not join the 9782 do not join the 978	4
Ans. Due to the presence of porous soudy soil wa	
21. What is the small white patch in the river in grid square 8981?	
Ans. Rocky area or bad land	
22. What may be the main occupation of the people living in open mixed jungle in nort	n east?
Ans. Forestry and lumbering may be the main	occupation
23. Give three reasons for the presence of only footpaths in the green wash. Answ Construction of made is difficult in the helly	
(in Footpaths are created by people to collect fores	
(ii) To go to temple and Anacal Fair, jostpath is or	
	AL I

24. What do so many contour lines so close together in the grid square 9185 indicate?
Ans. Concol hills with sleep slopes
25. What does figure 180 (in brown clour) written in grid square 9182 indicate? Ans. It is a contour line of an emaginary line drawn on
mas joining places 180 metres above sea level.
26. Name the geographical feature represented by white patches in the middle of the river. Ans. White patches in the middle of the 951 ver represent islands, 320cks or stones. It is a bad land.
27. Mention the actual distance between the following:
(i) Vedavas (8782) and Juvol (9282) (ii) Vedavas (8782) and Ranavas (9080)
Ans. (i) 6:5 Km approximately (ii) 5 Km approximately
28. What is a causeway? Name the grid square having causeway of unmetalled road.
Ans. It is a raised road or platform across minor stream. 8582.
29. Mention the grid square having dry tank with embankments in the north eastern part of map extract. Ans. Grid Square 9189
30. State the settlement pattern in grid square 8990. What inference can you draw from this pattern? Ans. Linear as people prefer to two along cart track to seach jarus easily. 31. In which quarter of the map extract do you expect the lowest area to be? Why? Ans. South west quarter of the map because all water bodies jow
towards swand spot heights are also decreasing towards sis.
32. What special feature is depicted by the contour pattern in the grid square 9185? Ans. Conical hill with steep steps.
33. State the direction of the following:
(i) Open mixed jungle from Marwada (ii) △217 from Arado Nadi
Ans. (i) North East direction (ii) North East direction
34. In what two ways does the river bed of Arado Nadi convey that it flows through a region of seasonal rainfall Ans. We can see an exposed broad sandy niver bed and a thin
water channel. Acast back is going through river bed.
35. State the meaning of the following : (i) Dendritic drainage pattern (in 9182) (ii) Pack track (in 9282)
Ans. (i) Rever and its tributaries make a poterior like veins of a leaf.
(ii) Path made by constant we by men or animals to travel.

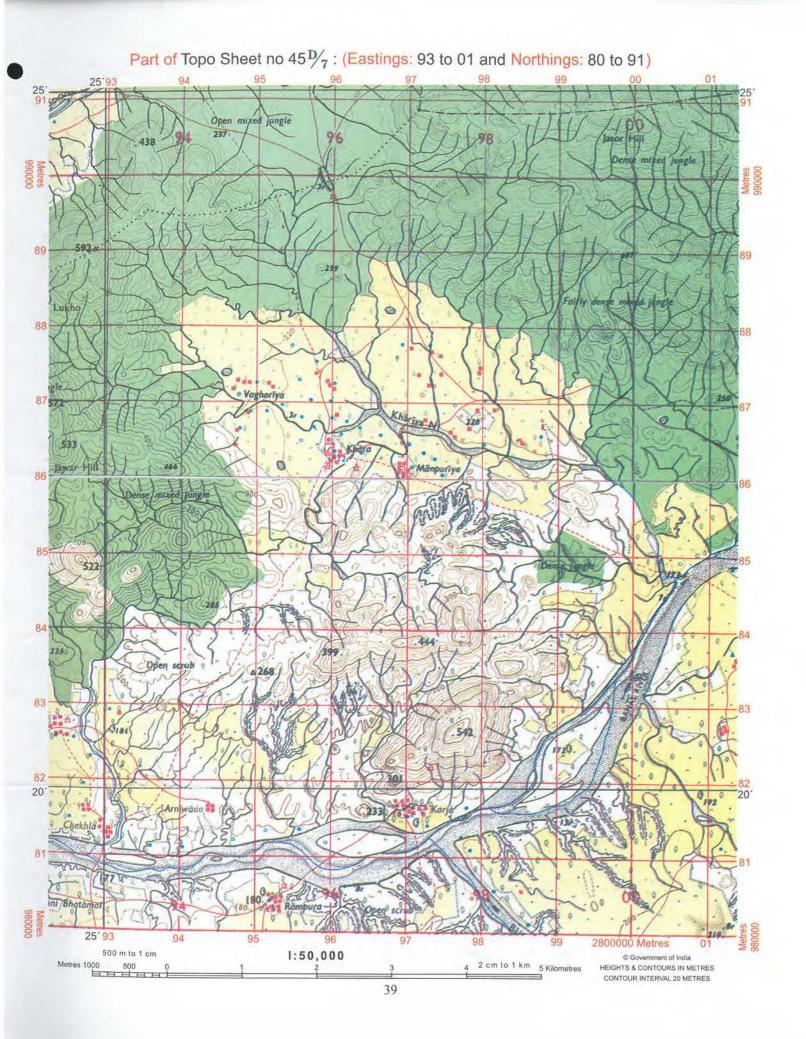
36. Which relief feature do you find in the grid square 9286? What other relief features are seen in the map?
Ans. It shows a saddle. Other relief features are, mountains, kills,
seasonal rivers and V-shaped valleys etc.
37. State two man-made features in grid square 8582.
Ans. Temple and permanent huts.
38. State two physical features in grid square 9281.
Ans. Dry river with the wooter channel.
Cuttivable land.
39. From which part of the map, the seasonal streams are originating? Give reason.
Ans. Most of the sea sound streams are originating from the
north rastern mountainous regions due to greater beight.
40. If a person living in village Shergadh wants to go to see the Annual Fair which is held every year in the month
of February, then in which direction he will go?
Ans. From Shergadh the person will go to the south East
direction
41. What is the main vegetation found in dense jungle in grid square 8882? Give one reason.
Ans. Tropical decideous forest as the region receives very
little rainfall or seasonal rainfall-
42. Which is the chief form of irrigation shown in the map extract? Give some evidence to justify your answer.
Ans. Chief form of irrigation is persunial lived wills, It is clear from
the presence of blue circles all over the map.
43. Describe the natural hill features in the grid square 9187 and 9284.
Ans. 9187 - Machard circular contour lines show de pression below higher
ekvation (591). 9284 - Circular contours show conical hill with steep slope
44. Give the meaning of figure 200 written in grid square 9083. Why is it close to •292 point?
Ans. Contour joining places of height of 200 metres above sea level.
· 292 should the height train or have
292 shows the treight of that point about wear sea level. So, it is very de
45. Calculate straight line distance between 860810 and 920880.
HORAL MANA LA AUNTICA AL LA LONGO DE LA

Study the Topo Sheet No. 45 $^{\rm D}\!/_{\rm 7}$ (Eastings 93 to 01 and No. the following questions:	orthings 80 to 91) printed on page no. 39 and answe
1. Give the direction of the following:	The second section is a second section of the second section of the second section is a second section of the section of
(i) Village Rampura (9580) from Δ268 (9483) Ans. (i) South direction	(ii) Spot height •466 (9386) from •542 (9782) (ii) North West direction
2. Describe the general relief in the region enclosed b	y Eastings 96 to 01 and Northings 88 to 91.
Ans. Montanous region with steep slop	The state of the s
V-shaped valleys, dense mixed juny	
3. Describe two natural feature and one man-made fe	· · · · · · · · · · · · · · · · · · ·
Ans. Natural-conical hill and radial d	rawage pattern. Man-nade - Temple
4. Give examples of the following in this region :	- 1 N N N
(i) Two means of transport	(ii) Two occupations of the people
Ans. (i) Carttrack and Pack track	(ii) Agriculture and forestry
5. State the straight line distance between temple (in	9580) and temple (in 9782).
Ans. 2.5 Kas approximately.	
6. What is the drainage pattern in grid square 9386? J	ustify your answer.
Ans. Redialpattern as the streams	are flowing in all director's
7. What is the direction of water flow in Khariya Nad	i? Give two reasons to justify your answer.
Ans. Nhs to SE. Contour line 220 in 8	Chr and 200 in N.E. Spot
height in NW is . 259 and in SE	it is 1228,
8. State the type of settlement in the area enclosing t	he Eastings 94 to 98 and Northings 86 to 88.
Ans. Scattered or dispersed sett	lowest
9. What are the conventional signs (any two) located	at the points, the six figure grid reference of which are
(i) 950834	(ii) 964862
Ans. (i) 1268 (Triangulated height)	(ii) At (Temple)

(ii) 13r in south eastern part of Banas river.

10. Give six figure grid reference for the following :

(i) Temple north of Kharja settlement



11. Give four figure grid reference for the following	
(i) Arniwada settlement	(ii) Village Chekhla
Ans. (i) 9481	(ii) 9381
12. Measure the actual distance (Pack track) between	
Ans. (i) 6.5 Km approximately	-
13. Give examples of the following in this region :	
(i) Two means of irrigation	(ii) Two places of worship
Ans. (i) Wells and water chaune	l (ii) Temples near Khaza & Kampura.
14. What is the straight line distance between Karja	(9781) and Manpuriya settlement (9786)?
Ans. 4.5 Km approximalely.	
15. What is meant by settlement? Where do we find	thick settlement in this map extract?
Ans. Settlement is a group of homan	dwellings in usban and several areas-
	plains and wide river valleys.
16. What do small curved lines in black colour in g	
Ans. It indicates broken ground.	It is formed due to weathering,
	E. along seasonal river's banks.
	occupation of the people of the region shown in yellow colour
Ans. Tellow wash indicales cultis	exple land Perenrial lined wells
provide irrigation and agricul	Ture is the main occupation besse.
18. What does red line (in dash) mean, given in grid	square 9885?
Ans. Pack track or foot path	1
19. What does the island in Banas river in grid squa	
Ans. Specially in lower course the	deposited river load is indicated
by islands and rocks. It is p	rominent if river is dry.
20. State the direction of flow of water in the Banas	
Ans. Bow northeast to southwes	Conducated by block arrows in 9983.
21. Why are the contours drawn very close to each o	A STATE OF THE STA
Ans. It has steep stope with course	I hill at 542 meters height.
22. State the drainage pattern shown in grid 9782. J	
Ans. Radial drainage as the stre	aus are flouring in all directions.
23. What do the blue dots in grid square 9587 show	?
Ans Blue dots Bearesout Do Seun	ial Punal 190 (18.

24. What does 3r written in the tank in grid square 9589 indicate?
Ans. Relative height of embankment of the trank is 3 metres.
25. State two natural features in grid square 9980.
Ans. Broken ground and Seasanal streams,
26. State two man-made features in grid square 9580.
Ans. Permanent hat and temple.
27. What do the dark colours contours 200 and 400 in between Eastings 97 to 99 and Northings 82 to 84 indicate?
Ans. These are ludex contours, thickened at regular intervals Cevery 5 milis
28. What does the red square in grid 0085 indicate?
Ans. It represents persuament hut.
29. What is represented by the red line across Banas river in grid square 9681? What is its use?
Ans. It is a cart track used to cross the river.
30. What is spot height ? State the meaning of ●687 in grid square 9988.
Ans. It refers to the height of a point on the ground above wreak sea leve
"687 shows that the place is 687 metres about near sea level
31. Why is there no cart track or pack track between Eastings 96 to 99 and Northings 82 to 85?
Ans. The presence of contours indicate that it is a mountainous segion
with steepslopes. Reople use sideways to move in different direction.
32. What is the general slope of land in the northern part? Give reasons for your answer.
Ans. Slope is towards south. There is trilly region in the north from
which many zivers originate and flow towards south & join khoring the
33. What is indicated by the black arrow given in grid square 9880?
Ans. It indicates that the tributary of Banco river is flowing from
South to north or from south east to north west.
34. What can you say about the streams flowing in this region?
Ans. In this negion numerous strong are originating from the hely areas.
These are sessonal stranes having soft soil easily craded by water.
35. State the pattern of vegetation in grid square 9680. Why is it found there?
Ans. Serub is a vigetation found in suggested with less than 100 cms. of
Bainfall. The 34 loss it indicates a day major

36. What is the drainage pattern in grid square 0089? Explain.
Ans. Thellised drawage pattern with streams flowing parallet
to each other and joining main stroom at right angles.
37. Describe the type of settlement in village Vaghoriya.
Ans. Despessed settlement It is the zurol sottlement in which
Reple live in cottoges scattered over a large area. 38. Give two reasons for the absence of settlements in the area shown with green wash.
Ans. cis braccessible jorests.
(i) Steep monutain slopes.
39. What is a shoal? State the grid square where it is found in this map extract.
Ans. It is a rocky area in shallow water. It is shown in grid square 978
40. What is the meaning of the following symbols?
(i) in grid square 9584 (ii) White area in grid square 9483
Ans. (i) Form lines (ii) Bad land with screek
41. State the contour height written in grid square 0088.
Ans. 600 metares
42. State one natural and one man-made feature in grid square 9489.
Ans. Natural jeature - Seasonal streams.
Man-made frature - Te kvél boundary
43. State the actual length of state boundary as shown in the map extract.
Ans. 5 Km approximately.
44. Which is the highest trigonometrical station? State the height and the grid number where it is located.
Ans. A 268 located in grid square 9483.
45. What indicates that village Manpuriya has both permanent huts and temporary huts?
Ans. It shows symbols of both permanent huts and temporary hers.

Study the Topo Sheet No. 45 $\frac{D}{7}$ (Eastings 77 to he following questions:	85 and Northings 73 to 83) printed on page no. 44 and answer
1. Give four figure grid reference for the foll	lowing:
(i) Hill in the south	(ii) Depression in south east
Ans. (i) 7975	(ii) 8274/8375
2. Give the directions of the following:	
(i) Nilpur (8379) from Nandotra (8282)	(ii) Nilpur (8379) from Bhakar (8076)
Ans. (i) South East	(ii) North East
3. What is the direct distance in km between	2
Ans. 3.25 Km approximal	ely
4. What is the distance in km along the cart to	
Ans. 5 Km approximately	
5. What is the meaning of the following?	
(i) Dep in grid square 8274	(ii) PO in grid square 8480
Ans. (i) Depression	(ii) Post Office
6. Give the six figure grid reference for the fol	llowing:
(i) ∆ 168	(ii) ∆ 169
Ans. (i) 812786	(ii) <u>781779</u>
7. Give reason why some of the land in the a	rea shown on the map is not cultivated?
Ans. Some past of land is no	It cultivated because it is barren
and broken by numeros	et cultivated because it is barren us strong over it, especially
in the northern part alo	ng Banas River
8. What is the most widespread mode of tra	0
Ans. Map shows a wide vetus	rork of red lines representing cart
tracks as the most wide	spread made of transport- There is
only one unnitalled senad	on the eastern part muning from 0 6.
9. Give the drainage pattern in the grid square	re 7975 Justify your answer
	reams are flowing outward in all
lie to the	or Diffe the spokes of a wheel.

Part of Topo Sheet no $45^{\rm D}\!\!/_{\rm 7}$: (Eastings: 77 to 85 and Northings: 73 to 83) 15" 83 BANAS RIVER 20 struction Dantiwa 168 Stone quarry Kheda 2/15 0165 Bhāka 76 3170 75 Dep 15r. 183 · 10r 169 9178 0 15 2780000 Metres 83 84 1:50,000 500 m to 1 cm 2 cm to 1 km 5 Kilometres Metres 1000 500 0 HEIGHTS & CONTOURS IN METRES CONTOUR INTERVAL 20 METRES

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10. What is the geographical name that you would give on the map? Justify your answer.	to the general pattern of settlements in the region shown
	ated settlement. Red colour prince were
that are shown in chesting with	Bot Alice town of
	Post office, temple, mosque etc.
11. Give two physical features in grid square 7975.	
Ans. Two physical fratares coro	
eis Tricongrelation height 317.	
(ii) Conical Kills indicated by	circular contours.
12. State two man-made features in grid square 8076.	
Ans. Cart Brack	
Pezocoaent hat	
13. Find out the straight line ground distance between:	
(i) Vasda (7780) and 178 (8473)	(ii) Δ169 and Δ317
Ans. (i) 10 Km approximately	(ii) 2-75 Km-approximately
14. What does 10r written in grid square 8273 indicate?	
Ans. Il indicates that the relative	height of soud dune is to metres.
15. What is the meaning of the following symbols:	
(i) IB in grid square 8480	
(ii) Dotted black line in grid square 8277	
Ans. (i) Inspection Bungalow	(ii) Tehsil Boundary
16. Give six figure grid reference for the following:	The second second second
(i) Stone quarry near ∆169	(ii) A tomb in Bhakar settlement.
Ans. (i) 781778	(ii) 803763
17. Give the direction of the following:	
(i) Stone quarry (7877) from Kheda (8077)	(ii) Village Godh (7782) from Latiya (7980)
Ans. (i) West derection	(ii) North West objection
18. Measure the length of canal in km between Easting on the life of people of this area, when it is complete	s 80 to 83 and Northings 79 to 81 and describe the effect ed.
Ans. Length of cond is & Kon oppre	xionately. After competion et
would provide a good source of	of water to the people living in more
villages. It would lead to an outo	usive use of land for agriculture.
The state of the s	The of which to experience .

19. Name any two physical features in grid square 7973.	
Ans. Sand dunes and undersited streams.	
20. Give one reason to explain why the streams in grid square 8280 do not join a river.	
Ans. Presence of soudy porous soil do not allow water to flow freely	
21. State two reasons for the absence of human habitation in south eastern part of the map extract.	
Ans. The region is sandy with depressions, The land is unsustable	
jos cultivation or any other activity. Water is not a vailable.	
22. Name the type of rainfall experienced in the region shown in the map extract. Give a reason to support your answer.	
Ans. Seasonal racingall. Madefried streams and sandy region is present.	
23. What is the blue line running through the Banas river? What does it indicate?	
Ans. It is a personneal narrow water channel. Rest part of	
the river is dry indicating seasonal rainfall.	
24. What is meant by a gravelled road as shown in the eastern part of the map.	
Ans. A gravel zood is a type of unpoved road surfaced with	
graved. It may be referred to as unwetalled sood.	
25. What does the black circle in grid square 7977 indicate?	
Ans. It is a dry tank.	
26. Give the meaning of the following symbols:	
(i) 18r in the grid square 8374 (ii) • in grid square 7780	
Ans. (i) Relative height of sand dans 13 m (ii) Persencial lined well	
27. What is meant by perennial lined well? Name any one grid square near Nandotra (north of Banas river) when	
it is found.	
Ans. Perenisal lined well is a puce a well lined with bricks and	
cement. It is filled with water throughout the year Grid squar 3282	
28. Give the direction of the following:	
(i) Village Nilpur (8379) from Vasda (7780) (ii) • 171 (8280) from temple (7883)	
Ans. (i) South East direction (ii)	
29. Find out the straight line distance between temple (7883) and Vasda (7780).	
Ans. 3 km approximately.	

(i) Police Outpost in northeast	(ii)Temple north of Godh village
Ans. (i) 849830	(ii) 78/834
31. What does figure 168 in grid square 8079 indicate	? Give the meaning of it.
Ans. It indicates spot height 16	8 metres. Spot height is the
height of a particular point	
32. What is indicated by green symbols shown in gri	d square 7881?
Ans. It indicates presence of a	by deciduous trees.
33. What is the drainage pattern shown in grid square	4
Ans. It is the dendritie drain	age pattern. In this tree like
The state of the s	ike the trients and the tributory
streams join it like the bran	ches of a tree.
34. What is indicated by red square in grid square 83	
Ans. It shows permanent hie	t.
35. Identify the correct six figure grid reference for t	he following:
(i) 27r near village Godh (775822, 778825, 7788	328)
(ii) IB east of gravelled road (844804, 842804, 8	42815)
Ans. (i) 782825	(ii) 842804
36. Give the direction of the following:	
(i) Dep (8274) from Bhakar	(ii) Sand dune (7879) from Latiya (7980)
Ans. (i) South East direction	(ii) South west direction
37. What does red lines at spot height 169 in grid squ	uare 8378 indicate?
Ans. It shows that there are ca	est backs an all directions
which are used for trans	sportation purposes.
38. What special feature is shown in river bed in grid	
Ans. It shows shallow triver be	d. It has dry surface with
island, nocks and stone.	s
39. What is indicated by figure 160 written in grid squ	are 8080? What is brown line?
A 1 -	so metres. Brown line is the
contour line joining places of	egnal height above sea level

30. Give the six figure grid reference for the following:

40. What is the direction of Banas river? Give two evidence to prove your answer. Ans. Baras river is flowing from North East to South best is Principal of black arrow is south was part of ziver ii) spot height is decreasing towards south west 41. What is indicated by red squares shown in grid square 7974? Ans. It indicates permonent hub in Linour settlement. 42. What is the spot height at kheda settlement? Ans. Spot height is 166 metres about sea level. 43. State two man-made features and one natural feature in grid square 8480. Ans. Mon reade features- Univertalled 3000 and Inspection Burgaton Natural feature - Jandy region with opensored regitation 44. What does the red symbol near Δ224 (7974) indicate? Ans. It is the symbol of Chhatri is clevated dome shaped pavilions 45. What is the difference between Δ169 in 7975 and •169 in 8378? Ans. D169 in 7877 is the triangulated height. It means that it has been correctly neasured. · 169 in 8378 is the spot height, It was that it has been estimated from the value of adjacent contours.

1. Give six figure grid reference for the following:	
(i) •207 in the south east	(ii) Mosque in Juvol
Ans. (i) 907768	0 0 1 0 0 0 0
2. What is the direct distance in kms between Rar	
Ans. 7 Km approximately.	lavas (9000) and vagnioi (6476)?
3. What is the actual distance along the cart track	from Ranavas (9080) to Juvol (9282)?
Ans. 3-25 Kon approximately.	
4. Give the directions of the following :	
(i) Ranavas (9080) from Ravlavas (8583)	(ii) Vadavas (8782) from Juvol (9282)
Ans. (i) South East direction	(ii) South west direction
5. What is the meaning of the following?	
(i) 30r in grid square 8777	(ii) 180 in brown in grid square 9279
uns. (i) Belative depth of Ruled well is Be	m. (ii) Contour line of 180 metres
6. List two modes of transport shown in the map e	extract.
ins. (i) Caret track	(ii) Pack track
What type of rainfall is experienced in the region reason.	n shown in the map extract? Justify your answer giving one
ns. Seasonal rainfall.	
Presence of day stream	5 and tanks.
What is the main occupation of the people living support your answer.	in the area shown in the map extract? Give one reason to
ns. Agriculture as the region he	as yellow wash indicating cultiver ble
9. What is meant by Δ192?	
s. It wans triangulated her	oht is 192 males

Ans. It shows depression often found in sandy regions at the top of dane.

Part of Topo Sheet no 45^{D}_{7} : (Eastings: 85 to 93 and Northings: 73 to 83) 25'93 20 20 Dantiwada Nani Bhatamal Kenthal ka Dhora 205 199 Dep Dep Dep alled Dep Dep Dep 201 Dep 141 198 Dep. 61. Depression Dep Q Rāmsīda 121. 0 9182 207 Väghral 1191 20 Bhatamala. 182 76 9 9 9 0192 16r. Q Q 00 171 Sangla Bhutedi Badarpara 12r. 207 0178 Par 121.205 93 25 2790000 Metres 1:50,000 500 m to 1 cm @ Government of India 2 cm to 1 km 5 Kilometres Metres 1000 500 0 HEIGHTS & CONTOURS IN METRES CONTOUR INTERVAL 20 METRES 50

11. Give four figure grid reference for the following	
(i) Settlement Davitiwada north of Nala	(ii) Depression near Kenthal ka Dhora
Ans. (i) 8582	(ii) 8879
12. Give the drainage pattern in the grid square 878	
	like branches of tree. It is found on flat la
13 Draw symbols to represent the following features	of the sale of the
13. Draw symbols to represent the following features	
(i) Confluence : Meeting of tributary and main	river (ii) Seasonal tank/dry tank
Ans. (i)	(ii) (iii)
14. Give at least two man-made features in the grid	square 8582.
Ans. (i) Unmettaled road	(ii) Permouent hiels
15. Give at least two natural features in the grid squ	uare 9074.
Ans. (i) Sand danes	(ii) Trees
16. Give the settlement pattern in the grid square 92	
	. At develops on either side, of
a silver of roadi	
17. Find out the direct ground distance from Vaghro	ol (8576) and Vadavas (8782).
Ans. 6 Km approximately.	Control (Control (Con
18. Explain hill features in grid square 8880.	
Ans. It has a conical hill having t	tionalated intelligents
10 latin the contract of the contract of	menganted result of x 16 metres.
 In this region of map extract, some streams starte kilometres, why? Give two reasons. 	ed to flow from their origin point but disappeared after a few
	il is anamer and attent of
Ans. Beene of variage are whi	ch is possess and absorb water.
Region gets poor racufall	or spa soual sacutall.
20. In which part of the map we find a gravelled road	?
Ans. South western past of the	- Mag Dr
21. What does the blue dot in grid square 8874 indic	
Ans. The blue dot in good squ	come 00 17 Undicoles -
Perencial lined well,	
22. Give the meaning of the symbol 10r in grid square	≥ 8681.
Ans. It means that the relative he	
23. What is meant by 8r near Chakhla village (9281)?	
Ans. Relative by what of mitts has	4 8 15 8 une 1305

24. What is the contour height in grid square 9078?
Ans. In grid square 9078, the contour height is 180 metres
above sea level.
25. State the type of drainage pattern in grid square 8880. Justify your answer.
Ans. Trellised pollery. Due to alternating layers of hard and so
rocks, streams joice main triver at right angles forming a trell
26. What is the main pattern of transport around the settlement Bhutedi (9074)?
Ans. Radial pattern of transport as the cont tracks are going
in all directions. In southern side, it has one victorable track.
27. What is the relative depth of dry tank near Sangla settlement?
Ans. Belative depth of dry tank is 12 metres.
28. What do the following represent?
(i) Black broken lines in 8581 (ii) Black curved lines in 8779
Ans. (i) Broken ground.
(ii) Disappearing streams,
29. What is the actual map distance between Juvol (9282) and Vadavas (8782)?
Ans. 5.5 Km approximately.
30. Mention any two natural features found in grid square 8978.
Ans. Uncultivable land and depression (sandy region)
31. What is the meaning of the following symbols?
(i) Red lines in grid square 8974 (ii) Black tree in grid square 8976
Ans. (i) Cart tracks
(ii) Surveyed tree
32. State the shortest cart track distance between Bhutedi (8974) and Ranavas (9080).
Ans. 7-5 km app3 eximately
33. Mention two man-made features in grid square 9080.
Ans. Permanent heets and temple.
34. What type of settlement is found in grid square 9281?
Ans. Scattered settlement.
35. Mention the factors which provide evidence that the region in the map extract is a rural region.
Ans. No metalled roads only cart tracks.
· Main source of water - lined perennial wells
- lock of amenities like hospitals, telephone hies etc.
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36	. What does the black curved line in the south east corner of the map indicate? State the direction of it with evidence.
Ans	It is a seasonal stream travery water in the rainy season. It
	flowing from 5 E corner towards News, and drasning into the tank
	It is indicated by the decreasing relative height from East to the
	. What is the total length of Nala (water body) shown in the map extract?
	9 km approximately.
38.	State the meaning of the symbols in green in the grid square 8576.
Ans,	Dry deciduous trees found in the areas having seasonal rains
39.	State the directions of the streams flowing in between Eastings 86 to 93 and Northings 81 to 83. Give evidence.
Ans.	Streams are flowing from North-east to South-west;
	because spot height is decreasing towards the west.
40.	How Ranavas (9080) is linked with Nani Bhatamal (9280)?
Ans.	Through caret brock.
41.	What is the meaning of the following symbols?
Ans.	(i) Departs sion - a hollow in sand hill (ii) Formlines indicating height of
	Give four figure grid reference for the following :
	(i) Village Moti Bhatamal (ii) Village Akedi
Ans.	(i) 9175/76 (ii) 8975
	State the direction of the following:
	(i) Temple in Moti Bhatamal (9175) from temple in Ranavas (9080).
	(ii) Village Chekhla (9381) from Vadavas (8782)
Ans.	(i) South-east direction (ii) South-east direction
44.	Give the drainage pattern in the grid square 8983. What does the green patch in the grid square indicate?
	Dendritic drainage pattern. Green colour indicates that
	the area has forests, trees, shrubs etc.
45.	In grid square 8881, the streams are joining the Nala at right angles. What does it show?
	Streams are flowing from North to South. The streams
	are showing trellis drainage patterns

Study the Topo Sheet No. 45 D/7 (Eastings 93 to 01 and Northings 73 to 83) printed on page no. 55 and answer the following questions: 1. What is the meaning of the following symbols? (i) 13r in grid square 9981 (ii) 10r in grid square 9778 (ii) Relatives height of sond dienx - 10 metros Ans. (i) Relative height of river bank -13 2. What is the direct distance between Antroli (9576) and Chitrasani (9974)? 5.25 km, approximately 3. Give the directions of the following : (i) Bantawada (9978) from Arniwada (9481) (ii) Ikhapura (9376) from Antroli (9576) (ii) North-west Ans. (i) South - east 4. What is the distance in km along the pack track from Karja (9781) to Pirojpura (9775)? 6.5 Km approximately 5. Give four figure grid reference for the following : (i) Tomb west of village Antroli (ii) Village Hebatpur in the south eastern part 987.3 6. Give six figure grid reference for the following : (i) Temple in village Antroli (ii) Temple north of Village Rampura Ans. (i) 952765 955805 7. Give the meaning of the following: (i) Open blue circle in 9481 (ii) Red square in 9977 Permanent hist Ans. (i) Perennial unliked well 8. What is the type of relief found in the following grid locations? (i) 9782 (ii) 9679 Ans. (i) Hills with steep slopes (ii) Broken ground

10. List the modes of transport you find in the map extract.

Ans. Cart track, pack track, metalled road, radway line.

9. State the drainage pattern in grid square 9782. Explain the main features of it.

11. What are the modes of irrigation found in the area?

Ans. Perennial lived wells, tube wells, perennial unlined wells.

Ans. Radial drainage - the streams spread out in all directions

like spokes of a wheel It is seen where a conical hill exists.

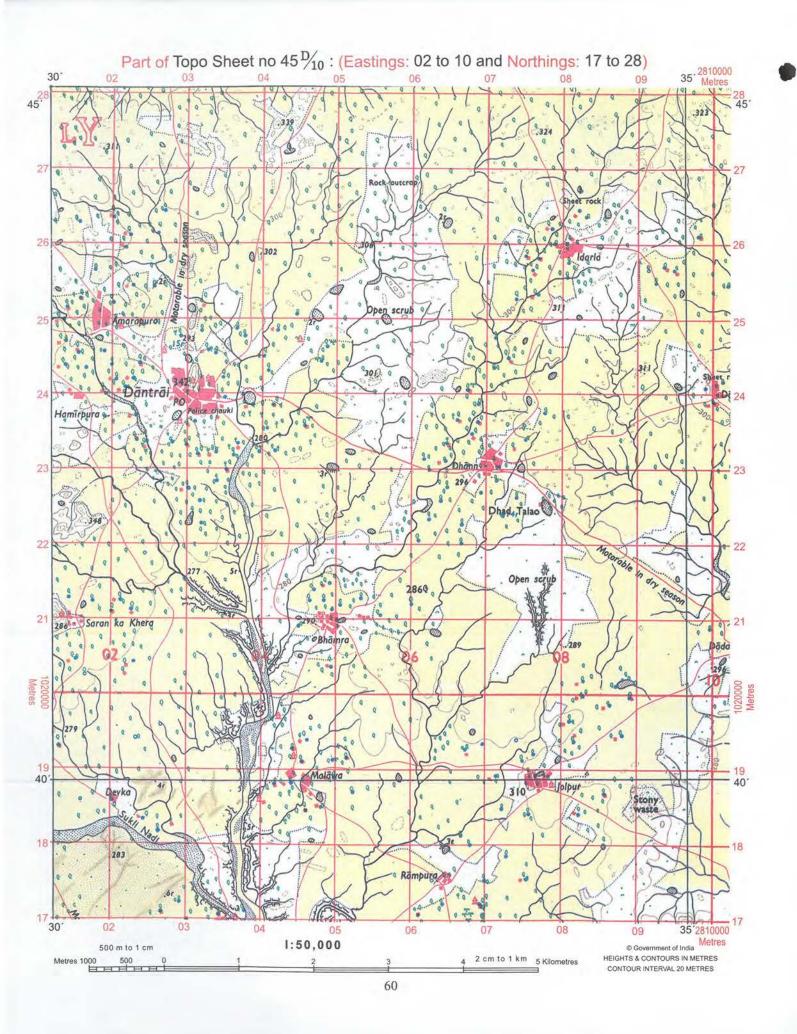


Give one reason to explain why the streams in grid squar in the map extract that has similar streams.	e 9478 do not join a river. Identify another grid square	
Ans. This region has sandy soil and due to less rainfall volume of		
water in streams is loss. Other similar stream is in grid square 957		
	, ,	
13. Identify two landforms shown by the contours in grid so		
Ans. Conical hill and watershed		
Ans. SE to NW as englicated by Wlack a		
15. What is the meaning of the following:	, ,	
(i) Δ 217	(ii) White coloured area in grid square 9483	
Ans. (i) Triangulated height is 217 metris.	(ii) Uncultivable land or waste land	
16. Give the direction of the following:		
(i) Chekhla village (9381) from Bantawada (9978)	(ii) Open scrub from Jaspuriya (9973)	
Ans. (i) North-west	(ii) North-west	
17. What is the straight line distance between Railway Station (0074) and Rampura (9580)?		
Ans. 8 Km approximately		
18. What do the following represent?		
(i) Black broken lines in 9575	(ii) Black curved lines in 9879	
Ans. (i) Disappearing streams	(ii) Broken ground	
19. Which is the highest trigonmetrical station? State the h	neight and grid where it is located.	
Ans. Highest trignometrical station	is A 364.	
It is located in grid square 9574. Height is 364 metres.		
20. What is the reason for the presence of many islands in		
Ans. There are many islands in the bed of the river		
because of seasonal rainfall and narrow perennial water channe		
21. What kind of settlement pattern do you find in 9476? settlement pattern?	What can you infer from the presence of this type of	
Ans. Dispersed settlement because per	ple live our their own farms.	
22. What type of relief is found in grid square 9578?		
Ans. Sand dunes and sand hills,		
23. What does PO mean as written in grid square 0074?		
Ans. It represents Post Office.		

24. In grid square 9379, there is a number 217. What does this indicate?		
Ans. Triangelated height which tras bock collected using trignoustry-		
25. In what way is the pattern of settlement in grid square 9476 different from that in grid square 9580?		
Ans. 9476 kas dispersed settlement as people line on their parms,		
9580 has nucleated settlement and breets are clustered together forming tour		
26. What is the total length of Western Railway in south east corner of the map extract? How do you calculate it?		
Ans. Scale of the way states that 2 cm = (Com. Total bugth of Baileox		
line 15 Bcm 52 4 kac		
(20 = 1 km, house 8 cm = 4 km)		
27. Find out the length of the ridge from 9574 to 0077 in kilometres.		
Ans. 7 km approximately		
28. What is the actual track distance between Antroli (9576) and Bantawada (9978)?		
Ans. 6 Km approximately		
29. State two landmarks given in grid square 0074.		
Ans. PO: Post Office R5: Railway Stateou		
30. What is indicated by two black oval shaped circles shown on grid square 9874?		
Ans. These are dry tanks or having water only in rainy season.		
31. State two natural features found in the grid square 9882.		
Ans. Disappearing streams and hills with steep slopes,		
32. State two man-made features shown in grid square 9576.		
Ans. Temple and permanent huts.		
33. State two main means of transport in the south eastern part of map extract.		
Ans. Metalled mood and western Railway		
34. Give six figure grid reference for the following :		
(i) Δ 364 along the ridge in the south (ii) Surveyed tree south of village Karja.		
Ans. (i) 957745 (ii) 972815		
35. What is the general slope of the area in northern half of the map extract? Give evidence.		
Ans. Stope is towards west, because both Banas and Palram Nade		
meet in the eastern part and flow towards west.		
36. Explain the nature of the river Banas.		
Ans. River is dry and flow towards west- Prevence of sedemonts and		
broken ground indicate that it is in the middle course.		

37. Give direction of surveyed tree 213 (9779) from surveyed tree 225 (9873).
Ans. North west.
38. What is the actual length of the metalled road from grid square 9873 to grid square 0176?
Ans. 5.5 km approximately.
39. Which is the most important settlement in this map extract. Give any two reasons.
Ans. Chitrasaui . Il has advantages of good transport jacilities ie
netalled road and railway live all also has Post Office.
40. Describe the relief in grid square 9782.
Ans. Region is helly with steep slopes, contour height is 400 metres.
Height of conical till is 542 metres. It has radial drawage
pattern with disappearing streams. It also has the escarpment
41. Which is the biggest settlement north of the Banas river?
Ans. Karja settlement.
42. Name one region shown on the map which is unsuitable for the cultivation of crops.
Ans. White coloured Bigion is barrenlander, grid square 9776.
43. What type of rainfall is experienced in the region shown in the map extract? Justify your answer giving one
reason.
Ans. Seasonal rainfall as the streams and rivers are
seasonal with low water levels.
44. Why do you find limited cultivation in the map extract? Give two reasons for your answer.
Ans. Due to Jeasonal rainfall most of land is unsuitable for cultivation
dange part of land is sandy with sand duras or sand mountains
45. What difference do you observe in the pattern of drainage in grid square 9573 and the drainage in grid square
Ans. 9573 has trellis drainage potteku.
9381 has dondretie draincer pattorn

Study he fol	the Topo Sheet No. 45 $\frac{D}{10}$ (Eastings 02 to 10 and Northings 17 to 28) printed on page no. 60 and answer lowing questions:
1.	(i) Give four figure grid reference for the settlement of Bhamra.
	(ii) Give six figure grid reference for the temple in the settlement of Jolpur.
Ans.	(i) 0420 (ii) 079188
2.	What does the blue coloured circle in the grid square 0619 represent?
Ans.	Perennial lived well.
3.	What is the compass direction of the following:
	(i) Dantarai from Jolpur (ii) Dhad Talao from Bhamra
Ans.	(i) North-west (ii) North-east
4.	What is the difference between the pattern of settlements in 0725 and the settlement of Idarla?
Ans.	0725 has dispersed or scattered settlement.
	Idarla has nucleated or conepact sottlement.
5.	What is the value of the contour line in square 0426?
	The value of contour line is 300 wetres above near sea level
6.	Mention any two factors which provide evidence that the region in the map extract is a rural region.
Ans.	Main occupation is agriculture.
	No metalled road only cart tracks,
	How does the feature indicated by the black curves in grid square 0721 show that rainfall in this region is seasonal?
Ans.	It is the broken land or barron land, Broken ground is
	the result of weathering caused by alternate wet and
C	try periods which indicales seasonal rangall.
	Name two natural features in grid square 0527.
	Barren land and seasonal streams,
9.	Name two features which make Dantrai a more important settlement than the other settlements in the map extract.
	Dantrai is a more important settlement due to the
	presence of Post Office and Police Chareki.



10. What is meant by the following?
(i) Black vertical line between Eastings 09 and 10 (ii) 302 in grid square 0325
Ans. (i) Leve of longitude 35.
(ii) Spot height of 302 motres above mean rea level.
11. Name two man-made features in grid square 225.
Ans. Permonent hats and cart tracks.
12. What is the distance in km along the cart track from Bhamra (0420) to Idarla (0825)?
Ans. 6.5 Km approximately.
13. Find out the area of fairly dense scrub south of Sukli Nadi in the western part of the map extract.
Ans. 1 Sq. Km.
14. What is meant by 3r written in grid square 0617?
Ans. Relative height of touk with emboulement is 3 metres.
The state of the west control with the state of the state
15. State the drainage pattern in grid square 0319.
Ans. Dendrilie potteru of drainage.
16. What is the meaning of the following symbols?
(i) 4r in grid square 0218 (ii) in grid square 0226
Ans. (i) Relative height of sand deve 4 moters (ii) Porono nent hut
17. Measure the actual track distance between Dhann and Idarla.
Ans. 4 km approximately:
18. Find out the direction of Saran Ka Khera from Dantrai.
Ans. South West direction.
19. Calculate the area of the region which lies to the south of Northings 21 in square kilometres.
Ans. Area of the region is 36 Sq. km as per the scale given
20. Give reasons why there are so many lined wells in the region represented by map extract.
Ans. The region has under ground water and high water table. Dry
tanks and nivers have made it necessary to dig wells for irrigation
21. Name the largest settlement shown on the map and mention the special communication facility it enjoys unlike other villages in the map.
Ans. Dantrac is the largest settlement. Special communication
jacility it enjoys is Post Offices.
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22. Name two natural features found in grid square	0520.		
Ans. Seasonal stream, and	trees.		
23. What is the straight line distance between the to	emple in village Jolpur and the temple in village Bhamra?		
Ans. 3.5 Kon. approximately			
24. Give six figure grid reference for the following:			
(i) Temple in Jolpur	(ii) Temple in South east of Rampura		
Ans. (i) 078189	(ii) <u>068173</u>		
25. What is the meaning of the following?			
(i) in grid square 0820	(ii) 'Motorable in dry season' in south east		
Ans. (i) Natural dry tank	(ii) Cart tract submerged in rain		
26. Give the direction of the following:	SCONOUX.		
(i) Dhann (0723) from Bhamra (0521)	(ii) Jolpur (0718) from Dhann (0723)		
Ans. (i) North East	(ii) South East		
27. What is the difference between 6r in 0217 and 5r in grid square 0318?			
Ans. 68 - Relative height of sand dune is 6 metres.			
5x-Relative height of river bank is 5 metres.			
28. What kind of settlement pattern do you find between Eastings 02 to 04 and Northings 23 to 25? What inference			
	can you draw about the development of this type of settlement?		
Ans. Nucleated or clustered settlement. It is well connected to			
all other places and has facilities like Post Office and			
Police Chauki. It is well developed having purriament huts.			
29. What are the modes of irrigation found in the area?			
Ans. Sukli Nadi and ets tributary , persential wells and tanks.			
30. Why is there no water in Sukli Nadi?			
Ans. This region gets only reasonal rainfall. Therefore, nest			
part of the year Suffi Mac	li is dry		
31. What kind of climate do you infer from the nature			
Ans. The region exportences ho	tand dryclimate with the		
There rainy season.			

32. What is the settlement pattern in the grid square 08	19? Give evidences.	
Ans. Scattered or dispossed settlement fermought hots		
are scottered in the negion		
33. State one man made feature in grid square 0723 whi	ich indicates that people are religious.	
Ans. Temple in Dhann settlement.		
34. What is the meaning of the following symbols?		
(i) PO	(ii) <u></u>	
Ans. (i) Post Office	(ii) Disappooring streams	
35. Give the four figure grid reference for the following:		
(i) Village Malawa in the south	(ii) Dhad Talao towards the east	
Ans. (i) 04 \$ 8	(ii) 0722	
36. Find out the direction of the following:		
(i) Sheet Rock (0826) from Rock Outcrop (0526)	(ii) Stony waste (0918) from Rampura (0617)	
Ans. (i) East direction	(ii) North East derection	
37. Mention the highest and the lowest points on the man	Find out the straight line distance between them in km	
37. Mention the highest and the lowest points on the map? Find out the straight line distance between them in km. Ans. Highest point - 342 (0224)		
Lowest point - 277 (0321). Distance is 2-5 km approximately		
somest point - dil(032).	Distance 15 2-3 km approximally	
38. Measure the actual track distance between Rampura	and Jolpur (0718).	
Ans. 2 Kri approximately.		
39. What is meant by open scrub as shown in the grid s	guaro 07212	
Ans. Scrub is a regetation found in regions with less than loo		
cm of rainfall. It indicates dry region having desert and		
semi-desert conditions having grosses, herbs and geophytes.		
	J J J J J J J J J J J J J J J J J J J	
40. What do the symbol of tree in black colour in grid sq		
Ans. Juryryed thee shown in black	colour at serves as a pronument	
survey point. It serves as a l	andwork- It is not permitted to an	
41. What does the brown dots in grid square 0217 indica	ite?	
	1 said dives a mounts of tail	

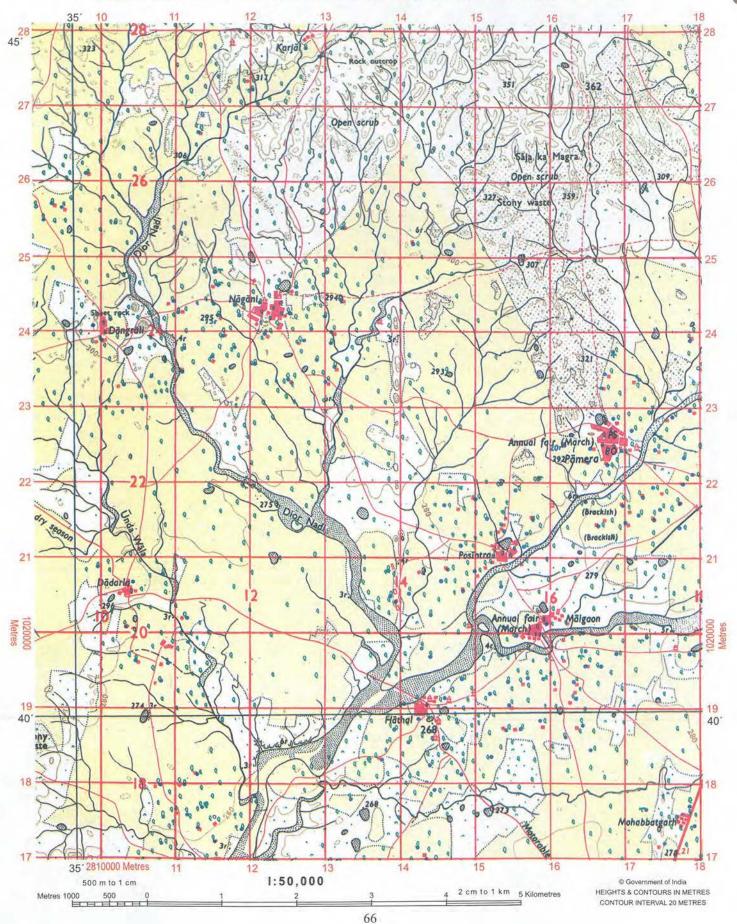
42.	42. What is the meaning of the following symbols?	
	(i) 2r in the northwest corner (ii) • in	the grid square 0423
Ans.	ns. (i) Relative height of stream is 2	metres.
	(ii) Perennial fined well.	
43.	43. What is the general slope of the area? Give reasons for your ar	nswer.
Ans.	ns. The slope of the area is towards sou	the Main river flows
	towards south as indicated by gr	No.
	river in southward direction. The	e highest point - 342
	is in the North and extreme south - 2	
44.	44. Which is the main occupation followed by people living in this re-	gion? Which additional occupation is likely to
	be followed by people?	· · · · · · ·
Ans.	ns. Agriculture is the main occupated	gu as indicated by
	yellow colour. The additional occi	epation followed by
	the people is cattle rearing.	
	45. Find out the direction of the Bhamra village from the temple in g	4 - 7
Ans.	ns. The direction of the Bhanisa V	illage from the lemple
	is south east.	

Study the following	the Topo Sheet No. 45 $^{ m D}_{ m 10}$ (Eastings 10 to 18 and Northings 17 to 28) printed on page no. 66 and answer owing questions:
	Name and give the four figure grid reference of a settlement where the people of the region meet at least once a year.
Ans.	Grid 1520. Rople meet in Annaal Fair held in March.
2.	What do the following mean?
	(i) 6r in grid square 1218 (ii) PS in grid square 1622
Ans.	(i) Relative height or depth of sometricii) Police Station
3.	Mention two factors which support that the rainfall in the region shown in the map extract is seasonal.
Ans.	Bresence of causeways, dry mivers, broken land and
Å	orackish indicate de asonal rainfall in the regione.
4.	Give the six figure grid reference for the following:
	(i) •351 in the north (ii) 294 east of Nagani settlement
Ans.	(i) 154273 (ii) 132244
5.	What is the total length in km of the metalled road found in the map?
Ans.	14.
	What is the distance in metres of the pack track from Nagani (1224) to the place where it crosses another back track? Show calculation.
Ans.	According to the given scale 2 cm = 1 km. Hence the
	distance of 8 cm = 4 km or 4000 netres.
7. (Give the directions of the following:
	(i) Mohabbatgarh (1717) from Pamera (1622) (ii) Dadarla (1020) from Nagani (1224)
Ans.	(i) South East direction.
	(ii) South best direction.
8. \	What is the settlement pattern in grid square 1717?
Ans.	Linear settlements
3 M. W.	The very week

9. Which is the chief mode of irrigation found in the area? Give reasons for the abundance of this mode of irrigation.

Ans. Perennial lined wells. This is because the acres receives

Part of Topo Sheet no $45\frac{D}{10}$: (Eastings: 10 to 18 and Northings: 17 to 28)



Seasonal natifall and water table is high. Kivers have
water in the rainy reason only
10. What is the main mode of transport as shown on the map?
Ans. Cart track. South cost corner has I ken long metalled in oad.
11. What is the general slope of the land? Give two reasons to support your answer.
Ans. North to south as indicated by spot heights and flow of rivers.
12. Identify the drainage pattern in grid square 1422.
Ans. Dendritie draluage patteros.
13. Which part of the map extract is not suitable for agriculture? Give reason.
Ans. Northern part because white colour indicates uncultariable
dry land. This slopy land is exaded by streams flowing on this my
14. What is the meaning of the following conventional signs?
(i) 294 in grid square 1324 (ii) Stony waste in grid square 1525
Ans. (i) Brownies surveyed tree 294 (ii) Fragment rock piecos & dry la
15. Give the directions of the following:
(i) Settlement Nagani (1224) from Open Scrub (1326)
(ii) Village Mohabbatgarh (1717) from village Hathal (1418)
Ans. (i) South west direction (ii) South Fast direction
16. Find out distance in km between settlement Dangrali and Malgaon (1620).
Ans. Direct distance between the two settlements is approximately
14 cm. This is equal to 7 km according to the given seale.
17. Locate the highest and lowest point on the map and also give four figure grid reference.
Ans. Highest point-spot beight 362 (grid 1627)
Lowest point-Contour of 260 m (grid 1117)
18. Give two man-made features shown in grid square 1224.
Ans. Permanent hiets and temple.
19. What type of trees are found in the region given in map extract? Give any one reason.
Ans. Decideous trees with open somebie desort or some desext
type of regetation. This is because of seasonal rainfall.

Ans. Dior Nade and its tributory Undo Wala:
21. Why there is no water in the rivers?
Ans. There is no water in the river as this area recorves
only seasonal rainfall, which is also very less.
22. What is the difference between the relief in the northern and southern part of the map? Ans. Northern part has high relief, comprises of hills: Southern part has low relief, comprises of plains.
23. Name the geographical feature represented by white patch in grid square 1221 in the middle of the river. Ans. It represents an island, rock or big slove.
24. What is indicated by 20r written in blue in grid square 1622? Ans. It shows that the depth of unlined well is 20 metres.
25. Find out the area of uncultivated land between Eastings 14 to 18 and Northings 24 to 28. Show calculation
Ans. On the mapeach grid square measure 2 cm x 2 cm or
1 Km x 1 Km. Therefore, the area of each square is 15g. Km. Here, the number of squares are 16, therefore, total area is 16 sq. Km.
26. Give the six figure grid reference for the following:
(i) A dry tank south of Hathal village (ii) •362 in the north eastern part
Ans. (i) 144189
(ii) 165274
27. What is the meaning of the following?
(i) 5r in grid square 1720 (ii) 320 in grid square 1127
Ans. (i) Relative height of river bank is 5 metres.
(ii) Contour height of 320 netres,
28. Give the direction of the following:
(i) Dangrali (1024) from Nagani (1224) (ii) Temple (1419) from Temple (1224)
Ans. (i) West direction
South east disaction

29. Give the drainage pattern in grid square 1626.			
Ans. Trellis drainage pattern.			
30. What is meant by the term 'brackish' written in grid sq	30. What is meant by the term 'brackish' written in grid square 1621?		
Ans. Brockish written beside a line	d well shows that the water of		
that well is sally and certit of a	dricaling and caltifration: Arid		
regions have high salt contenti	i water due to excessive evaporation.		
31. Find out two natural features in grid square 1525.			
Ans. Stony waste and disapp	earing streams.		
32. What is the straight line distance between Nagani (12	24) and Hathal (1419).		
Ans. 5.5 Km approximately.			
33. Give the meaning of the following:			
(i) Blue dots south of village Malgaon	(ii) Rock outcrop in grid square 1327		
Ans. (i) Perennial lived wells			
(ii) Scarty desert type vegetation where 30cles are cropped out-			
34. State the differences between the two rivers found in this region, i.e., Dior Nadi and Unda Nala.			
Ans. Dior Nodi is broader and has more sodiments. Unda Vala			
is narrow with less sediment	It is tributary of Dior Nadi.		
35. Give four figure grid reference for the following:			
(i) Saja ka Magra	(ii) Canal east of Brackish		
Ans. (i) 1526/1626	(ii)		
36. Give six figure grid reference for the following:			
(i) Dry tank north of Posintra	(ii) Spot height 296 south of Dadarla		
Ans. (i) 154212	(ii) 102204		
37. Give the meaning of the following:			
(i) 6r in grid square 1218	(ii) Sheet rock in grid square 1024		
Ans. (i) Relative height of Friver bank 6 m.	(ii) Well polished hard rocks (exposed)		
38. Find out indirect distance in km along the cart track from	om settlement Nagani (1224) to Posintra (1521).		
Ans. 3 Km approximately.			
39. State the drainage pattern in grid square:			
(i) 1017	(ii) 1727		
Ans. (i) Dendritie pattern	(ii) Trellised pattern		

40. Draw the symbols for the following:	
(i) Dry tank with embankments	(ii) Dry river bed
Ans. (i)	(ii)
(1)	(11)
41. State two man-made features in grid square 1419	,
Ans. Permonent huts and to	inples.
42. State two natural features shown in grid square 1	
Ans. Sheet Frock and Dior A	sode.
43. State the three modes of irrigation found in this a	area.
Ans. Perenniat lived wells, to	
Ans. TELETHIOS WERE WEW, IN	290 and Canal at the
three modes of irrigation	found in this area.
1	O .
44. What according to you is the main religion of the	A
Ans. Probably thindse is the we	sid religion of the people
	and the second s
living in village thathal. To	as a characted by the
presence of three temples in	in village Haghal
francisco of more conference	o occupation to the contract of the contract o
45. Name two settlements where Annual Fair is held	
Ans. Village ramera and Villag	ie Malgaon.

Study the Topo Sheet No. 45 $^{D}/_{10}$ (Eastings 18 to 26 and Northings 17 to 28) printed on page no. 72 and answer the following questions:

1. What is the meaning of the following?

(i) Fire line in the south east

(ii) Causeway in 1820

Ans. (i) Clearing made in the forest to prevent forest fire from spreading.
(ii) Small bridge built over a stream to maintain level of the moad.

2. What is the total length in km of the fire line found in the map?

Ans. 2.5 Kon approximately,

3. What is the total length of the canal in metres?

Ans. 5750 meteres approximately

- 4. Give the directions of the following:
 - (i) Sanwara (2025) from Udwariya (2423)
- (ii) Tokra (2221) from Burari Khera (2521)
- Ans. (i) North west direction
- (ii) West direction
- 5. Is the area developed? Support your answer with four evidences from the map.

Ans. Yes, as indicated by the presence of canal, dam, dispensory, metalled szood and Dak Bungalow.

6. Which is the chief mode of transport in the map? Give reasons for your answer.

Ans. Metalled rocad because it connects villages like Sanwara, Sirori and Gulabgari, hence likely to be used by large population

7. What are the modes of irrigation found in the area?

Ans. Dam and reservoir, canal and perennial lined wells.

8. Describe the nature of Sukli Nadi.

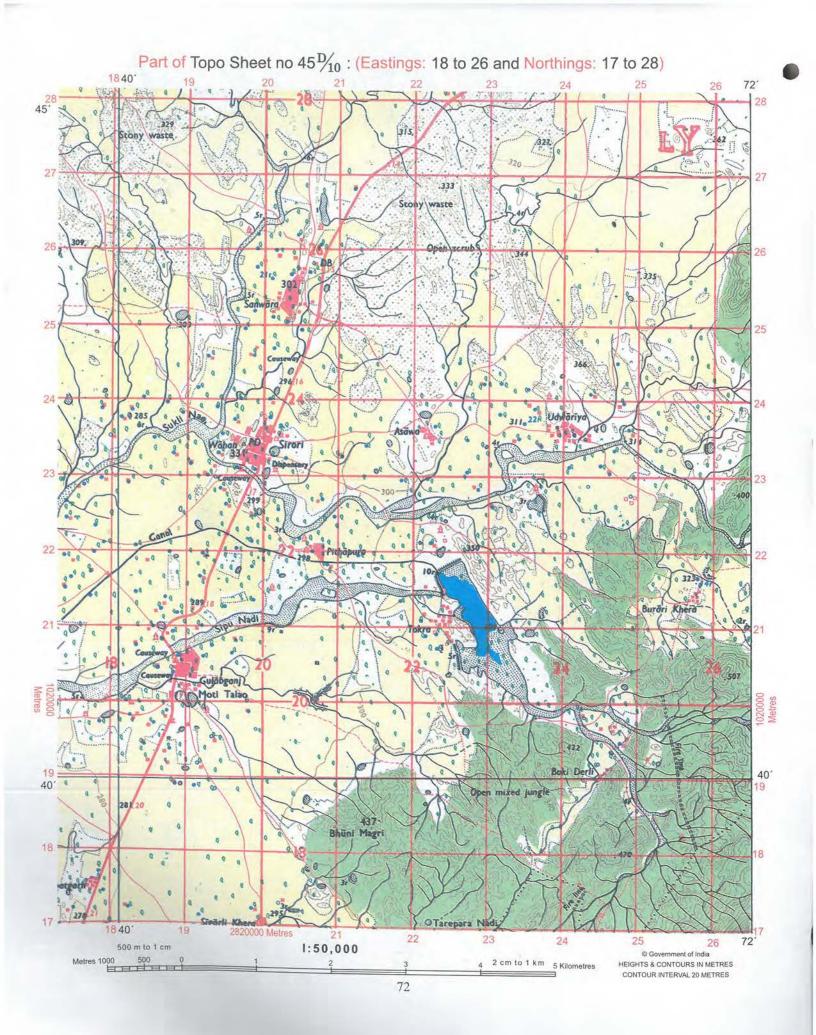
Ans. It is a norsow and dry river. It has less sedement. It flows westward and it does not have broken banks.

9. Give evidences that the area gets seasonal rainfall.

Ans. Dry rivers, dry touks and open screeb present in the region indicates seasonal rainfall.

10. What is the difference between the relief in the north and south east of the area?

Ans. Northern part is plain with low selief and scattered hells. Southeastern part has high relief with average height of you metries.



11. On which bank of Sukli Nadi are the villages Waha	n and Sirori (1923) situated? Give evidence.
Ans. Sukli Nadi is flowing from ea	est to west as indicated by spot
Y D V	e right bank of Sulli Nadi.
12. Give four figure grid reference for the following :	U V
(i) Sanwara settlement west of the main road	(ii) Moti Talao near Gulabganj
Ans. (i) 2025	(ii) 1919/1920
13. Give six figure grid reference for the following :	
(i) DB near the main road in the north	(ii) Spot height 437 in the sourthern part
Ans. (i) 207258	(ii) 214184
14. Give the direction of Dispensary (2023) from village	Tokra (2221).
Ans. North west direction.	
15. Identify the settlement pattern in grid square 2221.	Give the features of this type of settlement.
Ans. Livean or Ribbourd settlement	T. This generally develops along
	v, nevers or cavaly due to
V	h help in developing træde.
16. What is the difference between 4r in grid square 2	
Ans. 4x - Relative height of never be	
10 r- Relative height of dam is	1
0 1	
17. What is the settlement pattern in the south eastern occupation of people living in these settlements?	part of the map? What inference can you draw about the
Ans. Dispossed settlement. Agricultu	no and lembering - the magnitice
18. List five modes of irrigation found in the area.	
Ans. Reservois, dam, cancel, pers	unicel lined wells and tanks.
19. What is the direction of the flow of water in Sipu Na	adi? Give reasons in support of your answer.
Ans. Sipu Nadi is flowing from Ec	est to west. The spot heights
are decreasing towards we	
20. Describe the main conventional sign in grid square	
Ans. Dry tank with embankment he	eving depth of 3 motros.
21. What is indicated by blue colour shown in the grid	square 2220/21?
Ans. It is the reservoir filled with i	vater throughout the year.

22. Give the meaning of the symbol shown in grid square 2221.	
Ans. It is the Daw (earthen) built across the reservoirs (,).	
Storage of water allow down to generate electricity.	
23. What is represented by series of dots in grid square 2417?	
Ans. It represents tehsil- IV forms boundary between two tehsils.	
24. State the distance between Wahan (1923) and Gulabganj (1920) along the metalled road.	
Ans. 3:5 Ku approximately.	
25. What is the slope of the area given in the map extract? Give reasons for your answer.	
Ans. Area slopes towards west or south west, as indicated by	
the decreasing spot heights towards west.	
26. What kind of vegetation is found in the grid square 1917?	
Ans. Trapical decideous trees and thorny shoubs.	
27. Which relief feature do you find in the grid square 2424?	
Ans. The relief feature seen in this grid square is saddle. Other	
features are mountains, hills, dry rivers, v-shaped valleys etc-	
28. Give one reason for the presence of footpath in grid square 2019.	
Ans. Because seep and rugged terrain wakes construction of Boads difficu	
29. What is indicated by the meandering river in grid square 2022?	
Ans. It indicates a lower or nil gradient. Such a plain area	
is best'suitable for agriculture.	
30. What is indicated by the presence of canal, dam, tanks and wells is this map extract?	
Ans. This indicates intenseve use of land for agriculture.	
31. What occupations do the people follow in highland areas in the south eastern part of the map?	
Ans. Porestry, lumbering, and grazing on slopes of hills.	
32. What is the meaning of the following?	
(i) $\hat{\Pi}$ in the grid square 2023 (ii) \hat{S} in the grid square 2323	
Ans. (i) It indicates temple (ii) Meandering river	
33. Find out the actual length of the pack-track from Sanwara (2025) towards the west.	
Ans. 3.5 Km approximately.	

34. Identify the drainage pattern in grid square 2125.
Ans. Dendritic pattern.
35. List two reasons why grid square 2221 has been chosen as the location of the dam.
Ans. This area is at the base of the helly region have river will trav
more water. Canal can be easily used for agriculture here
36. State the direction in which the Sipu Nadi originates.
Ans. South east part of the map extract.
37. What is indicated by red squares shown in grid square 2422?
Ans. It indicates temporary hut.
38. Describe the conventional sign along with 3r in grid square 2322.
Ans. Dry took with embankment having height (depth) of 3 metres,
39. State the relief feature shown in grid square 2123 with brown and black lines. Give evidence.
Ans. V-shaped valley as the stracue is originating from hilly are a (300)
40. Give the meaning of 6r written in grid square 1823.
Ans. 28 cudicales that the relative reight or depth of the
niver bank is 6 metres.
41. Find out the straight line distance between Dispensary (2023) and Baki Derli (2419)
Ans. 6 Kne approximately-
42. Name the settlements through which the metalled road is passing.
Ans. Gulabganj and Wahan Tettlements.
43. Explain why there are so many causeways along the metalled road?
Ans. Due to the presence of seasonal streams and rivers.
44. Name the geographical feature represented by the white patches in the middle of Sukli Nadi.
Ans. It represents island, rocks and accumulation of publics.
45. Where do you find the lowest part of the topo-sheet? Give evidence.
Ans. The south west corner is the lowest part in this region?
Two rivers flow towards south west and the spot heights
are also decreasing towards south west.

Study the Topo Sheet No. 45 $\frac{D}{10}$ (Eastings 02 to 10 and Northings 09 to 19) printed on page no. 77 and answer the following questions:
 Give a six figure grid reference for the peak of Hara Magra hill and also state the grid number in which the hill is located.
Ans. 087160. Hill is located in grid square 0816.
2. Give the direction of the following:
(i) Village Marol (0308) from village Nimbora (0610) (ii) Village Mitan (0410) from stony waste (0718)
Ans. (i) South west direction (ii) South west direction
3. Find out the straight line distance between Revdar settlement (0313) and Nimbora (0610) settlement.
Ans. 4.5 Km apple oximately.
4. What kind of roads connect Revdar (0313) with Bikanwas (0316)?
Ans. Cart track
Calculate the distance in kilometres along the metalled road between the causeways in grid square 0512 and 0808.
Ans. 5.75 Km approximately.
 What is the general direction of flow of the Sipu Nadi, given in the map extract? Give reason to support your answer.
Ans. North east to south west, because spot heights are receding
from NE 15 SWe.g. 262, 254, 242 and so on.
7. What is the difference in the pattern of drainage in grid square 0916 and in 0712?
Ans. 0916 - Radial drainage pattern.
0712 - Trellés drainage pattern.
8. What is the geographical name that you would give to the general pattern of settlements in the region shown on the map? Give a reason for your answer.

9. List two occupations followed by people in the north east corner of the map. Support your answer with evidence from the map.

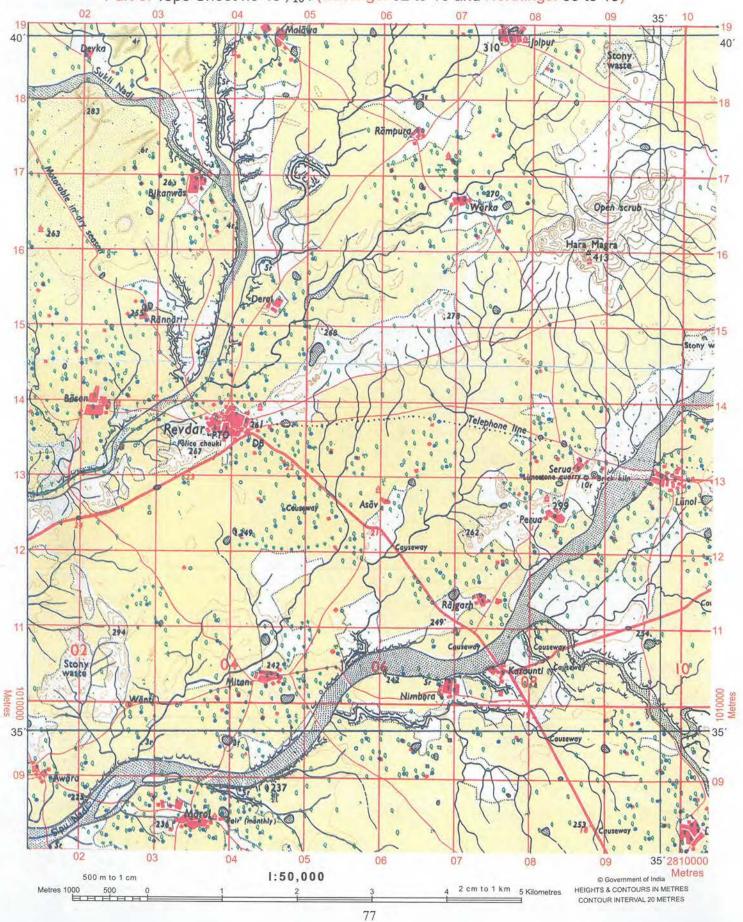
Ans. Agriculture as indicated by yellow colour.

Buarsying - presence of limestone guarry and brick kile.

Ans. Nucleated or clustered settlement. Permanent huts are

compact or close together.

Part of Topo Sheet no 45 ½ : (Eastings: 02 to 10 and Northings: 09 to 19)



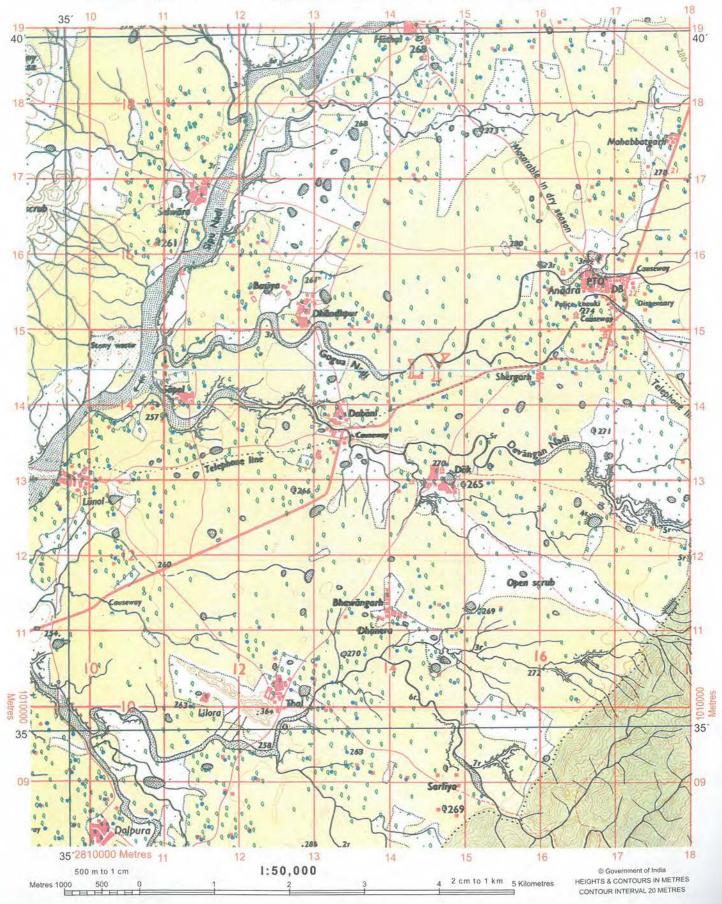
10. Give the meaning of the following:	
(i) DB in 0413	(ii) Concentric Circles in 0813
Ans. (i) Dak Bungalow	(ii) Brick Kilu
11. Find the direct distance in km from temple in Marc	ol (0308) to temple in Asav (0512).
Ans. 5 Km approximately.	
12. What is the length in metres of the telephone line	in the map?
Ans. 6500 metres approximatel	y.
13. Give the compass directions of the following :	
(i) Serua (0813) from Mitan (0410)	(ii) Revdar (0313) from Warka (0716)
Ans. (i) North east chreation	(ii) South west direction
14. State the main means of transport between Revd	ar (0313) and Karaunti (0710).
Ans. Metalled road.	
15. What is the meaning of black broken lines along the	river in grid square 0609? Describe how this feature is formed
Ans. It indicates broken ground	This leature is caused due to
	k. This indicates alternate art and dry
16. Compare the relief of the south east corner of the	/
Ans. South eastern part is a low	flat land. North eastern part is
the Killy region. Spot heights of	
17. Give the drainage pattern of the following grid squ	pares :
(i) 0814	(ii) 0517
Ans. (i) Dendritic pattern	(ii) Trellis pattern
18. What is indicated by 5r written in grid square 0408	
Ans. It indicates that the relative he	eight of xives bank is 5 netres.
19. Name two natural features present in the grid squ	
Ans. Dry lanks and discoppianier	ig streams.
20. Draw suitable symbols for the following :	U .
(i) Triangulation station 240	(ii) Limestone Quarry
Ans. (i) 4240	(ii) O Line Kila
21. Give the four figure grid reference for the following	ng:
(i) Village Nimbora in the south east	(ii) Stony waste in the north east
Ans. (i) 0610	(ii) 0918

ZZ. VVnat	kind of roads connect.	
(i) N	Marol with Mitan	(ii) Revdar with Karaunti
Ans. (i)	Cart trock	(ii) Metalled 2200d
23. Identif	fy the settlement pattern in grid square 0316.	
Ans. Coo	space settlement in North and	Scottered settlement in Jouthern part.
24. Name	the largest human settlement in the region. Give	reasons for it.
Ans. Res	odor is the eargest settlement	because it has metalled mood,
Post	Toud Telegraph Office, Dale Bo	uglow and Police Chanke.
	is indicated by the white patch in between Easting	The state of the s
Ans. 36	indicates concrettévated ba	nner land.
	two probable reasons, other than dry weather feat treceives seasonal rainfall.	ures, to indicate that the region depicted on the map
Ans. Cas	It track notorable in dry sea	son and conseways.
	is indicated by brown dots in grid square 0217?	
Ans. 20	indicates sandy region he	every sand dunes.
from N	Nimbora along the road linking these villages?	respect of Nimbora? How many kilometres is Mitan
Ans. Mit	an lie in the west. Cart track	linking both villages is 2-5 km appr.
	the name of the village where you find Post and To ap extract and draw conventional symbols of the sa	elegraph office and Dak Bungalow in this region of ame.
Ans. Res	vdar village. Conventional	Jight are:
	3: Post and Telegraph Office,	
30. What i	is the total area (in sq km) between Eastings 04 to	o 08 and Northings 10 to 14.
Ans. 4	x 4 = 16 sg. km	
31. Find o	out the actual length (in km) of the road plide by n	notor in the dry season.
Ans.	5 Km approximately	
32. Name	the important means of transportation in this reg	ion. Give examples in support of your answer.
Ans. Co	It track shown by single 12	ed lines,
- 1	latted road shown by doub	
33. Draw	the conventional symbols for the following:	
(i) D	Ory tank	(ii) Causeway
Ans. (i)	(12)	(ii)

34. Give the six figure grid reference for the following	7.
(i) Police chauki south of Revdar settlement	(ii) Brick Kiln near limestone quarry
Ans. (i) 034135	(ii) 088131
35. Identify the drainage pattern in the following grid s	quares :
(i) 0715	(ii) 0916
Ans. (i) Trellis patteru	(ii) Radial pattern
36. Find out the straight line distance between Δ 413	V
Ans. $12 \text{cm} = 6 \text{km}$	
37. Why do the region has open scrub in the north ear	stern part of the map?
Ans. Serub vegetation is found in	regions with loss than 100 cm of
sainfall. North eastern part	
38. Which is the chief mode of irrigation found in the	<i>11</i>
Ans. Persennial school wells show	u by blue dols.
39. Give the direction of village Rannari (0215) from vil	Q .
Ans. South west direction.	
40. State two natural and two man-made features in	grid square 0812.
Ans. Natural features - Broken q	zound, seasonal miver
Man-made feature - Permeneu	1
41. Give the meaning of the following:	
(i) • in grid square 0214	(ii) 21 in grid square 0512
Ans. (i) Perennial lined will	(ii) Distance stone 21 along metalled r
by the telephone line.	is area. Write the names of villages which are connected
Ans. Telephone l'as connects Revolar	settlement to lind settlements
43. What may be the main occupations of the people	living in Serua village? Give evidences.
Ans. Presence of brick kilu molica	eter boking bricks, pottery etc.
1	art from this, people are engaged
he guarrying as indicated be	the presence of linestone grearry.
	te pattern in the middle of the river in grid square 0208.
Ans. Il represent island, roc	
45. State the type of relief features shown in grid squa	,
Ans. Lowhells, agricultural land	and seasonal streams.

Study the Topo Sheet No. 45 $\frac{D}{10}$ (Eastings 10 to 18 and the following questions:	Northings 09 to 19) printed on page no. 82 and answer
1. What does the conventional symbol at grid refere	ence 147132 mean?
Ans. A temple.	
2. What do the following numbers in grid square 1717	and 1718 respectively mean?
(i) 278	(ii) 280
Ans. (i) Spot height 278 metres	(ii) Contour 250 m above man sea bu
3. Name four facilities that Anadra settlement has wh	nich makes it an important city.
Ans. Anadra settlement has a l Bungdow, Dispensory and	Past and Telegraph Office , Dak
4. What is the quickest means of communication for	the people of Dabani (1313)?
Ans. Telephone Live.	
5. What do the following mean?	
(i) Causeway in 1715	(ii) 6r in 1218
Ans. (i) Causeway is a raised plan	tform across a stream or road.
(ii) Relative height of the been	U .
6. State two factors to show that Sipu river is in its m	
Ans. " It has a wider course wi	the trebularies joining it
. It is meandering at few	o places.
Give four figure grid reference for the following.	
(i) Mountain Ridge in the south-west	(ii) Dolpura settlement
Ans. (i) 1110	(ii)
8. Give six figure grid reference for the following:	
(i) Temple near Dak	(ii) Milestone 22
Ans. (i) 147132	(ii) 173155
9. Describe the nature of Devangan Nadi.	
Ans. It is dry and flours through br	oken ground. It flows towards NE
direction Meandering nature	indicales et is in the middle course
10. What does 4r written in grid square 1612 mean?	
Ans. Relative theight of embanknow	of dry toute is 4 metros,

Part of Topo Sheet no 45 10: (Eastings: 10 to 18 and Northings: 09 to 19)



11. Give the direction of the following:	
(i) Temple (1413) from temple (1615) (ii) Village Lunol from village Hathal	
Ans. (i) South west direction (ii) South west direction	
12. Calculate the straight line distance between village Dak and village Thal.	
Ans. 3.5 Km approximately	
13. What is the meaning of the following?	
(i) ← ≪ in the Sipu Nadi (ii) 273 in the grid square 1517	
Ans. (i) It shows the direction of the flow of river.	
(ii) It shows the surveyed tree 273.	
14. Mention two natural features in grid square 1511.	
Ans. Open scrub and dry tout.	
15. If a man were to walk from Dak (1412/13) to Anadra (1615):	
(i) In which direction would he be walking	
(ii) Which are the two different kinds of roads that he would be using.	
Ans. (i) North east directou.	
A CONTRACTOR OF THE CONTRACTOR	
(ii) Cast track and metalled 200d.	
16. Mention the names of any two man-made features in the grid square 1110.	
Ans. Cart track and permanent hets	
17. List two occupations followed by people in the plains found in the map. Support your answer with evidence	
from the map.	
Ans. Agriculture " yellow colour - Lixubering or forestry - Mountainous region in 5. E corne	~ óre
18. Compare the relief of the south east corner of the map with the remaining part of the map.	20
	7
Ans. S. E. Corner of the map is hilly region with do use forests. Rom	aur
part of the map is a flat plain with low relief.	
19. Describe the climate of the region in the map with suitable evidences from the map.	
Ans. Dry streams and siver, broken ground and open serus in	Deta
	Charles
tropical nonsoon type of climate with seasonal rainfall.	
20. Find out straight line distance between the following:	
(i) Causeway (1715) and Causeway (1313) (ii) Temple (1615) and temple (1418)	
Ans. (i) 4.5 Kur approximately (ii) 4 kur approximately	
21. Give the direction of village Selwara (1116) from Anadra settlement.	
Ans. North west direction.	

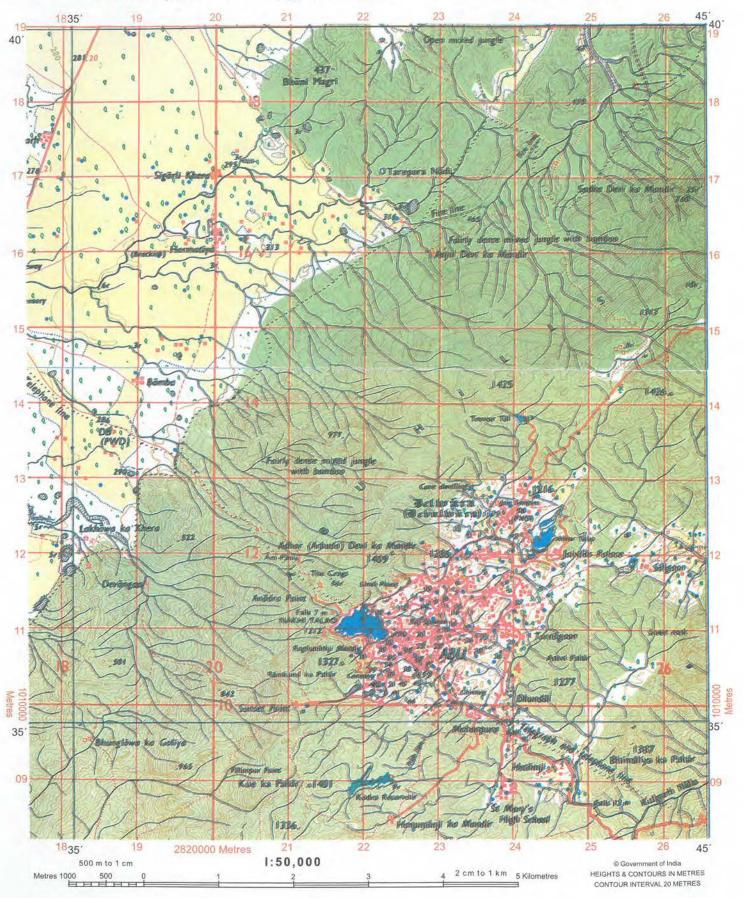
22.	Give six figure grid reference for the following.	
	(i) Dry tank near Lunol settlement	(ii) Surveyed tree 261 South of Selwara settlement
Ans.	(i) 104127	(ii) 109162
23.	Give the drainage pattern in grid square 1708. Justify	your answer.
Ans.	Trellis drainage pattern al	
	the wain river at right a	ugles.
24.	Give the direction of the following.	
	(i) Village Selwara from Anadra settlement	(ii) Village Dolpura from open scrub (1511)
Ans.	(i) North west direction	(ii) South west direction
25.	Name at least three villages which have temples.	
Ans.	Dak, Anadra and Hathal	villages,
26.	Mention two natural features in grid square 1014.	0
Ans.	Stony waste and Sipu No	adé.
27.	Give the general direction of Sipu Nadi and write wh	ich of its bank receive water of rivers Gogua Nadi and
	Devangan Nadi.	
Ans.	Sipu Nadi flows from North el	ast to south west. The left
	bank receive water of two ni	vers mentioned here.
28.	Name the relief feature shown along with 4r in grid so	uare 1612.
Ans.	Dry tank with embankment.	The relative height / depty
	of the tank is 4 metres.	
29.	Find out the straight line distance between Lilora villa	ge (1110) and Sapol village (1114).
Ans.	4 km approximately	
30.	Name two tributaries of Sipu Nadi as shown in this r	nap extract.
Ans.	Gogua Nadi and Devaugar	e Nadi.
31.	Mention two man-made features in grid square 1717.	
Ans.	Metalled road and permen	ext but.
32.	State the three types of roads available for transporta	tion in this region.
Ans.	Cart tracks, pack tracks a	ud netalled 300d.
33.	Figure 280 is written in brown as well as in black colou	
Ane	Brown - contain height 180 M.	Block - Spot height 980 m

34	How village Hathal (1419) is linked with village Dhandhpur (1215)?
Ans	. Through cart track.
35	(i) What is indicated by black broken lines shown in grid square 1011?
	(ii) What is the reason of not making a causeway over there?
Ans.	(i) It shows indefinite stream
	(ii) Because it is not flooded in the reactly Leason.
36.	Give the drainage pattern in grid square 1016.
Ans	Dendritie in trast and readered he west
37.	Find out the straight line distance between surveyed tree 269 (1408) and surveyed tree 273 (1517).
Ans.	9 km approximately (2 cm = 1 tem)
38.	Give the direction of PTO (1615) from dry tank (1210).
Ans.	North east direction
39.	Mention two natural features in grid square 1711.
Ans.	Barren land (white patch) and disappearing stream
40.	Measure the actual length (in km) of the metalled road given in this map extract.
Ans.	14 Km approximately
41.	Give six figure grid reference for the following :
	(i) Dispensary near Anadra settlement (ii) Dry tank east of Sarliya village
Ans.	(i) 174154 (ii) 162094
42.	Mention two man-made features in grid square 1409.
Ans.	Cart track and permanent hut.
	Find out the straight line distance between Dolpura (1008) and Mohabbatgarh (1717).
Ans.	12 ku opproximately
44.	Mention the grid square where Devangan Nadi meets the Sipu Nadi.
Ans.	1014
45.	Dabani (1313) and Anadra (1615) both are situated on the metalled road but there is a lot of difference is facilities. Explain.
Ans.	Dabane has the facility of telephone line and wetalled good.
	Dabare has the facility of tetophone line and wetalled 2000d. Anadra has the facility of PTO, Disponsary, Police Chanki and Dak Bange

Study the Topo Sheet No. 45 $\frac{D}{10}$ (Eastings 18 to 26 and Northings 09 to 19) printed on page no. 87 and answer the following questions:

1. Give four figure grid reference	e of the following:	
(i) St. Mary's High School	(ii) Nakhi Talao
Ans. (i) 2308	(ii	2110/211/2210/2211
2. Give six figure grid reference	of the following:	
(i) Sunset Point) Highest point in the area
Ans. (i) 21100	(ii	224120
3. What is the purpose of having	pipeline in grid square 2209	?
Ans. It supplies water	to ME- Abu from	u Kodra reservoir.
4. State the drainage pattern in g	rid square 2112.	
Ans. Dendritic dra	inage pottern	
5. List five modes of irrigation fo		1
Ans. RESERVOUR, Daw,	Pipeline, Peren,	real lined with and tanks.
6. In which course of river develo	opment are the rivers of the	area? Give reasons for your answer.
Ans. Upper colarse as n	ivers are warrow	and flow through hilly region.
7. What is the compass direction	of Sunset Point from the s	ettlement of Anadro Point (2011)?
Ans. South directión	l.	
8. What do the following represent		
(i) The red square in grid squ	uare 2413 (ii) 6r in grid square 1815
Ans. (i) Temporary het	r settlement (ii	, Relative height of stream 6 meters
9. Figure 340 is written in grid squ	are 2318. What does it mea	an?
Ans. It shows contour &	340 netres, cont	ours are the emagnery
lines joining plan	ces of equal eter	ration above mean sea level.
10. What is the purpose of having	Fire-line in grid square 2417	7?
, ,	s de stopping à	or preventing the spread
of forest fires.		
11. List two main occupations follo	owed by people in Abu. Sup	port your answer with evidences from the map.
Ans. Townism - Hilly 9200	w, Nakhi Talao Fall	s, Delavara Temple, Trenset Point et
Education - St. Mars	is High School,	Sophia High School.

Part of Topo Sheet no 45 1/10: (Eastings: 18 to 26 and Northings: 09 to 19)

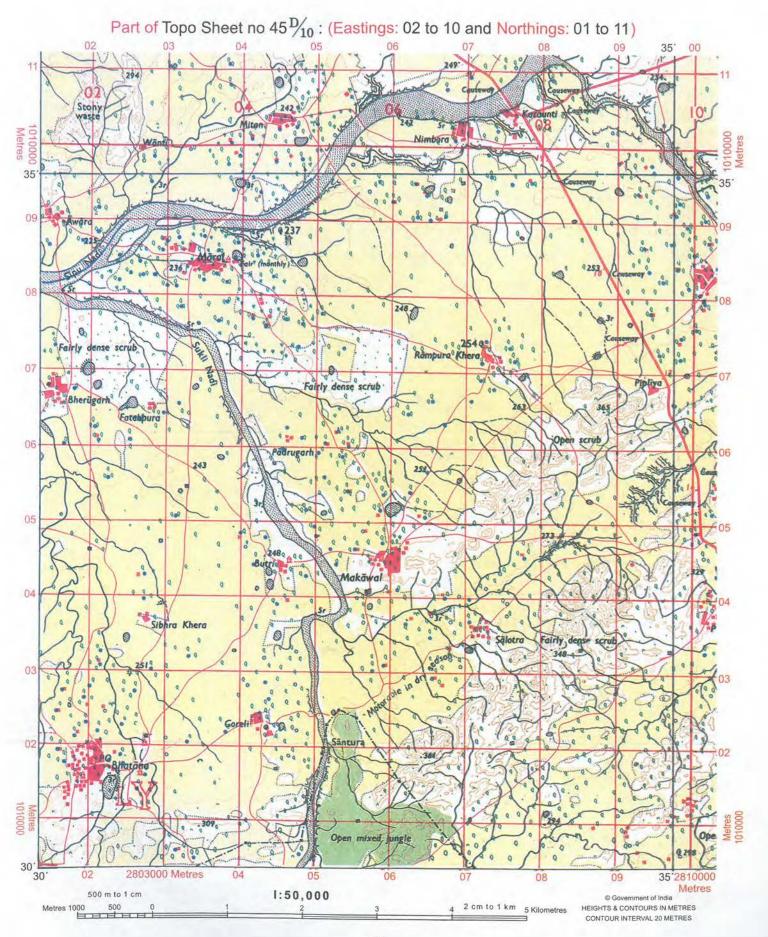




23. Refer to grid square 1813. Mention the slope of the land and one man made feature in the area with relevant references.
Ans. Slope of land is towards north west. How made frature is
Dak Bungalow of Public Works Department (DB, PWD)
24. Give four figure grid reference for the following:
(i) Anjini Devi Ka Mandir (ii) Trevor Tal
Ans. (i) 2215/2216 (ii) 2413
25. Describe the settlement pattern in the grid square 2016.
Ans. Scattered or dispersed settlement.
26. What do 20 and 281 in red and black respectively in grid square 1818 mean?
Ans. Red-distance stone of 20 km, Block-spot height of 281 meters.
27. From where does Abu, north of Mohanpura get its main water supply? Give two reasons for your answer.
Ans. Abu gets its main water supply from Kodra Reservoir through
pipeline and water works leading from it to Aba.
28. Where are most of the permanent huts located in this region? Give two reasons for your answer.
Ans. In the south earliern part at footbills dere to the availabelety of wales,
presence of metalled 200d, PTO, Telephone line, Talao and other facilities
29. Name two types of Jungles found in this region.
Ans. Open wixed jungle and fairly dense niexed jungle with bamboo.
30. Mention two occupations of the people living in the northern part of the region in the map extract. Give reasons to support your answer.
Ans. Agriculture - Presence of yellow wash and percurial lined wells.
Lienbering or forestry-Presence of green wash or jungle in
the north eastern part of the region,
31. What is the purpose of having DB (PWD) in grid square 2412?
Ans. It is the Exst house for officials working in Public works Reportion
32. Identify landforms shown by contours in grid square 2113.
Ans. Contours here indicates steep slopes with escarpnionts
and v-shaped valleys.
33. Give the direction of St. Mary's High school (2308) from Jaivilas Palace (2412).
Ans. South west direction.

34. Find out the straight line distance between Cave Dwellings (2312) and Singarli Khera (2017).
Ans. 5 km apps oximately.
35. Find out the actual distance between Anadra Point (2111) and St. Mary's High School (2308).
Ans. 5 kan approximately.
36. Name two man made features in grid square 2208.
Ans. Temple and metalled 20ad.
37. Name two natural features in the grid square 1909.
Ans. Watershed and V-shaped Valleys.
38. What is indicated by the figure 437 in the grid square 2118?
Ans. It indicates the spot height of 437 ic the height of soudor
places between contours It is shown with a dot.
39. What does the double line in red colour in the north west part of the map extract indicate?
Ans. It indicates the wetalled road.
40. What is meant by the following:
(i) Falls 12m in grid square 2508 (ii) △1426 in the grid square 2514
Ans. (i) It means a waterfall at the height of 12 metros.
(ii) It shows the triongulated treight of 1426 metres.
41. Name the three different kinds of roads in grid square 2411 and the one in grid square 2514.
Ans. Metalled road, unwelated road and prek track in 2411.
Footpath in grid square 2514.
42. Calculate the distance in kilometeres along the metalled road from distance stone 20 to 21.
Ans. Distance is 1.5 Kan approximately.
43. Name two man-made features shown in grid square 2312.
Ans. Dilwara temple and metalled 30ad.
44. Mention two natural features in grid square 2018.
Ans. Dry tank and seasonal streams.
45. Name the biggest reservoir mentioned in this map extract. Also give its grid reference.
Nakhi Talan between emptiones 21 to 23 and NAS things 10 to 12 -

Study the Topo Sheet No. 45 $\frac{D}{10}$ (Eastings 02 to 10 and the following questions:	Northings 01 to 11) printed on page no. 92 and answer	
1. Give the four figure grid reference for the following	ng:	
(i) A big island in Sipu Nadi	(ii) Site of monthly fair near Marol	
Ans. (i) 0208	(ii)03 <i>08</i>	
2. Find out the direct distance in km from temple in Butri (0404) to temple in Karaunti (0710).		
Ans. 6.75 Kan approximately.		
3. Give the compass direction of Rampura Khera (0707) from Mitau (0410).		
Ans. South east direction		
4. State the drainage pattern in grid square 0705.		
Ans. Radiak drainage pattern		
5. Mention two modes of transport used by people in	this region.	
Ans. Metalled road and cart track		
6. What is the chief mode of irrigation found in the a	rea?	
Ans. Perenvial lined wells.	36 Sept.	
7. Give six figure grid reference for the following :		
(i) Temple near Marol village	(ii) Causeway south of Karaunti village	
Ans. (i) 038084	(ii)083098	
8. (i) What do the tiny curved black lines in grid squ	are 0306 indicate?	
(ii) What is the main cause for this feature?		
Ans. (i) Broken ground,		
	reather is responsible for it	
9. What kind of road connects Makawal (0604) and Br	natana (0201)?	
Ans. Carl track		
Calculate the distance in kilometres along the meta 0907.	illed road between the causeways in grid square 0809 and	
Ans. 2.75 kon approximately	, ,	
11. Which type of tanks are found near village Bherug	,	
Ans. Two dry tanks and one dry.	ns. Two day tanks and one dry tank with embantement.	
12. What does figure 243 in grid square 0305 indicate?		
Ans. Il represent spot height 24	3 meters above mean sea level.	



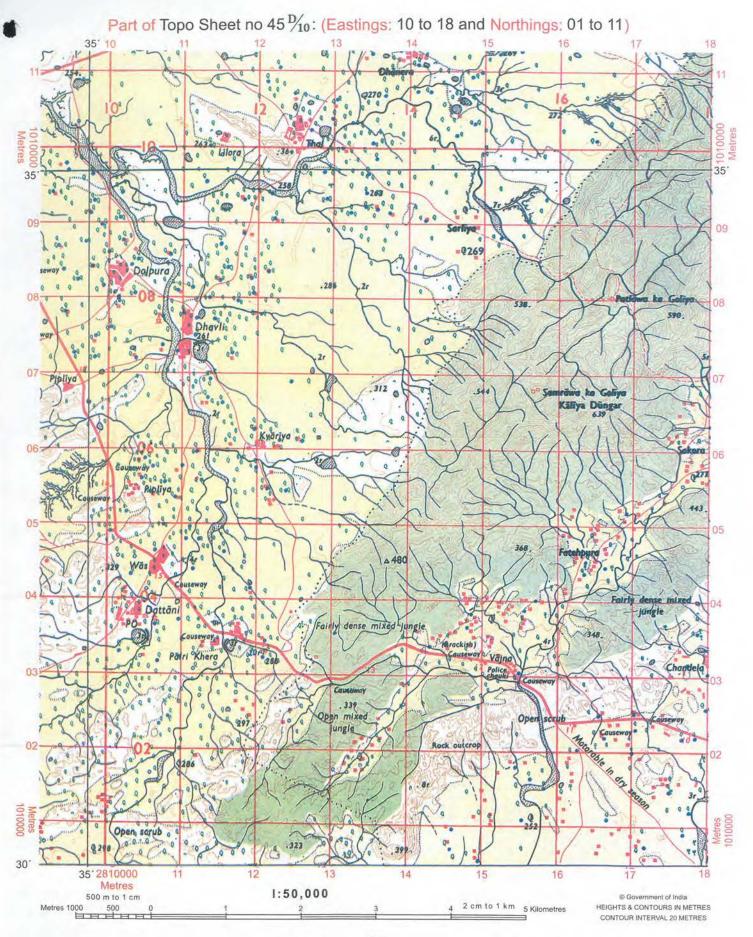
10. Give the meaning of the following .	
(i) PO in grid square 0201	(ii) 248 in grid square 0607
Ans. (i) Post Office.	(ii) Dry touk of spot beight 245.
14. Give the direction of the following.	
(i) Mitan (0410) from Rampura Khera (0707)	(ii) Village Nimbora (0610) from Goreli (0402)
Ans. (i) North west direction	(ii) North Fast dereelede
15. Name two man-made features in grid square 0710.	
Ans. Metalled Good and temple	le.
16. Find out the straight line distance between Fatehpu	
Ans. 6.5 Ku approximately,	* 3
17. Name two natural features in the grid square 0703.	
Ans. Cowcal hill and dry tank.	,
18. Measure the length of the metalled road in the reg	jion.
Ans. 8-5 Ku approximately.	
19. What is the difference between the relief of the soumap?	uth east corner of the map and the remaining part of th
Ans. Southeastern part has high	
part of the wap extract has	low notief or flat plain assea.
20. Give the settlement pattern in grid square 0703 with	1 1/
Ans. Linear settlement ic, the sett	Towart is usually stretched
out along the road, river el	En
Northern part has a gentle southward slope while the north west. Give evidences (any two).	
Ans. In Northern part spot heights	are decreasing from north 15
	5 are inercoping from JEGNW.
22. What is the spot height of the region north of dry ta	ank in grid square 0910?
Ans. Spot height is 254 metres	•
23. Give the direction of the following.	
(i) Marol settlement (0308) from Makawal (0504)	(ii) Village Salotra (0703) from Pipliya (0906)
Ans. (i) North west	(ii) South west
24. State the drainage pattern in grid square 0708.	
Ans. Dendritic drainage patters	n,

25. Why is there no water in Sipu Nadi and Sukli Nadi?
Ans. There is no water in the rivers as this area
receives seasonal rainfall or vory less rainfall.
26. Write the side of the bank where Sukli Nadi joins Sipu Nadi.
Ans. Sipe Nadi is flowing from North East to west direction
Stekli Nadi jour Sipu Nadi on its left side.
27. What is meant by open scrub shown in grid square 0806?
Ans. Soud or bush is characterised by shrubs. It often includes
grasses, herbs etc. Scrubland may extor occur naturally or by huma
28. Find out the straight line distance between Goreli (0402) and Marol (0308).
Ans. 6 Km approximately (2 cm = 1 km)
29. Measure actual distance in km through cart track between Marol (0308) and Makawal (0504/0604).
Ans. 5 Ka approximately.
30. What is indicated by the red line in grid square 0608?
Ans. Cart track.
31. State the drainage pattern in grid square 0704.
Ans. Trellised pattern.
32. State the pattern of settlement in Makawal (0504).
Ans. Compact or clustered settlement
33. Name two man-made features in grid square 0404.
Ans. Cart track, temple and permanent truts.
34. What is indicated by red squares present in grid square 0406?
Ans. It represents permanent hus.
35. How village Fatehpura linked to village Bhutri?
Ans. Through cart track.
36. Mention eastings and northings of the area where we can see open mixed jungle in this region.
Ans. Eastings 05 to 07 and Northings 00 to 03.
37. What is meant by 'motorable in dry season' along the cart track?
Ans. Cart track which is motorable only in dry season. In
raine scarpe it is tilled with water or Manded.

38. Describe the location of forests in this area.
Ans. Open wixed jungle are he the southern part as shown with
green colour. Rest is flat land with fairly dense screb.
39. Give the meaning of the following:
(i) Causeway in the grid square 0809 (ii) Brown dots in grid square 0704
Ans. (i) A raised road or platform across wholled read or minor stream
(ii) It represents a saudy region
40. Give the direction of village Bhutri (0404) from village Fatehpura (0206).
Ans. Southeast direction.
41. What type of settlement is found in grid square 0407?
Ans. Scattered or dispersed settlement.
42. Mention the grid square having radial drainage pattern.
Ans. 0803 and 0804.
43. Which part of the map do the Sukli Nadi originate from?
Ans. It originales in southern part and flows towards north.
44. Describe the nature of Sukli Nadi.
Ans. Sukli Nadi is narrow and dry It has little sediment
in the river bed, It flows from South to North - It is a
seasonal river having some water in the rainy season.
45. Give a reason why the streams in grid square 0508 do not join the main river.
Ans. These are indefinite streams and they reep into land surface
Ans. These are indefinite streams and they reep into land surface or sand. That is why they do not join the main river.

Study the Topo Sheet No. 45 $^{\rm D}_{\rm 10}$ (Eastings 10 to 18 and Northings 01 to 11) printed on page no. 97 and answer the following questions:

1.	Give the meaning of the following.		
	(i) Brackish in 1403	(ii) Dense mixed jungle in 1303	
Ans.		ed not fit for drinking purposes,	
	(ii) Fairy dense we'ved jungle	shown he green colour indicates	
		types of trees, or vegetation	
2.	Give the four figure grid reference of the following.		
	(i) Fairy dense mixed jungle in the south east	(ii) Ridge in the west	
Ans.	(i) 1703/1704	(ii)	
3.	Give the six figure grid reference of the following.		
	(i) Milestone 15	(ii) Temple west of Dhavli	
Ans.	(i) 107044	(ii) 107076	
4.	4. What is the direct distance in km from Lilora (1110) to Kyariya (1206)?		
Ans.	by 12 a name arrivate		
5.	What is the distance in km along the metalled road fr	rom Vaina (1503) to Was (1004)?	
	6 Km approximately		
	6. What is the difference between \$\triangle 480 in 1304 and \cdot 312 in 1306? s. 480 is the triangulated height ic height correctly we as weed.		
		7 . 7	
	312 is the spot heightie, estima	ted height from the value of contours.	
7.	State the drainage pattern in grid square 1510.		
Ans.	Detalité descripans potte	(h. 1	
	0		
0.	occupation of people living in these settlements?	part of the map? What inference can you draw about the	
Ans	Dispersed or segettered sottleman	to Main occupation in gran colow.	
Alls.	1 - # 1 2: A 7 1	E : 10	
	wash is tunbering, and agricult	ture on yellow colour wash.	
9.	Mention two main modes of transport used by the p	eople.	
Ans.	Metalled Boad and cart t	rack.	
10.		area? Give reasons for the abundance of this mode of	
	irrigation.	a la characteristics to the	



	What is the general slope of the map? Give reasons for your answer.
Ans.	Towards north west as nivers are flowing from SE to NW.
	What is the direction of Dattani and Dhavli from Vajan (1503)?
Ans.	North boot direction
	Name two man-made features in grid square 1601.
Ans.	Cart track and permeabent truto,
	Mention two natural features in grid square 1001.
Ans.	Seasonal streams and dry tanks
	What is the difference in the pattern of drainage in grid square 1606 and in 1007?
Ans.	(i) 1606 - Radial Pattern (ii) 1007 - Trollised Pattern
	State the length of the given map in kilometres?
Ans.	losg kni approximately.
	What do the following mean?
	(i) 3r in 1103 (ii) Open scrub in 1502
Ans.	(i) Relative height or depth of dry land is 3 metres.
	(ii) Area receives low nacifall and vegetation is thorny bushes
18.	Name the settlement that has a post office.
Ans.	Dottoni settlement
19.	Name two landforms represented by the pattern of contours in grid square 1608.
Ans.	Conical fills and saddle.
20.	Name two man-made features in grid square 1106.
Ans.	Permanent buts and cort track.
21.	Give four figure grid reference for the following:
	(i) The temple in Dattani village (ii) Kaliya Dungar
Ans.	(i) 1003 (ii) 1606
22.	How does the drainage pattern in grid square 1207 differ from the drainage pattern in grid square 1708?
Ans.	(i) 1207 - Deudsitic drainage pattern.
	(ii) 1708 - Trellised drainage pattern.
23.	State two reasons for the absence of human habitation in the north-eastern region of the map extract.
Ans.	This region is jorested, very hilly or rugged with the
	absence of drinking water facilities and proper roads.
24.	What is the pattern of settlement in grid square 1501?
Ans	Dispossed or scattered settlement.

	(i) • 364 in grid square 1209 (ii) 15 in grid square 1004	
Ans.	(i) Spot breight 364 metres.	
	(ii) Milestone 15 along the metalled road.	
26.	Give the direction of Dolpura (1008) from Dattani (1003).	
Ans.	Il is in the north direction.	
27.	7. What is the height of the conical hill in grid square 1306?	
Ans.	s. Height of conical hill is 312 metres above mean seco level	
28.	8. Mention the difference in height between the highest spot height in the map extract and the contour height in grid square 1006.	
Ans.	18. Heighest spot height = 639	
	Contour height = 260	
	Difference in height = 379 metres (639-260)	
29.	9. What is the settlement pattern in village Vajna (1503)?	
Ans.	. Linear settlement ic-settlement along road or streams,	
30.	0. Name two man-made features found in grid square 1106.	
Ans.	s. Permanent but and cart track.	
	What do the words 'motorable in dry season' in grid square 1601 and 1602 indicate about the rainfall received by the region shown in the map extract?	
Ans.	It nears that the track is notorable only during dry season	
	ie no rainfall. This indicates that rainfall is seasonal here.	
32.	Measure the straight line distance between dry tank with embankment in 1511 and dry tank with embankment in 1107.	
Ans.	5.5 Ku approximately.	
33.	3. Name two features which make Dattani (1003) a monge important settlement than the other settlements in the	
	map extract.	
Ans.	Presence of Post Office, temple and Masque, Besides this, it is	
	well connected with other town by metalled social.	
	What is the value of the contour line in grid square 1403? What is the contour interval in the map?	
Ans.	Value of the contour is 280 metres. The contour interval	
	in the map is 20 metres.	

25. Explain the meaning of the following:

35. Name two relief features that can be seen in the grid square 1401.	
Ans. (i) Conical hells	
(ii) V-shaped valleys	
36. What is indicated by white colour is grid square 1306?	
ns. Area is barren land unsuitable for cultivation of crops	
37. What are the brown broken lines drawn in grid square 1208?	
Ans. Formlines which show only approximate heights above mean sea	
38. Explain the meaning of the following :	
(i) in the north west corner (ii) in the grid square 1103	
Ans. (i) Dry tank having water in the rainy rason.	
(ii) Causeway along the wetalked road.	
39. What is the direction of Bhawangarh (1311) from Pipliya (1005)?	
Ans. North East direction.	
40. (i) Which part of the map is more developed in agricultural occupation?	
(ii) Give a reason for your answer	
Ans. (i) Western part is more developed in agricultural occupation	
(ii) Presence of perential lined wells and plain area (Lillow color	
41. Name the settlement that has Police Chowki. Give the grid square.	
Ans. Vajua Settlewert (1503).	
42. How is the cart track in grid square 1209 able to cross Nadi or Nala flowing in the region?	
Ans. Through the caceseway on the stream.	
43. Describe the drainage pattern in grid square 1304. With which water source would you link this pattern?	
Ans. Radial pattern. Streams are emerging in all directions	
from the tricengulated height 480 metres:	
44. State the difference between 280 written in grid square 1403 and 1208.	
Ans. 1403 - It suprosents the contour height 250 metros-	
1208 - Il represents the spot height 250 metres.	
45. Give the direction of Vajna (1503) from Dolpura (1008).	
Ans. South east direction-	

Study the Topo Sheet No. 45 D₁₀ (Eastings 18 to 26 and Northings 01 to 11) printed on page no. 102 and answer the following questions: 1. Give four figure grid reference for the following: (i) Ghorawala Magra in SE (ii) Bageri village 2503 2002 2. Find out the direction of Jhamar (2401) from Nakhi Talao. South knot direction. 3. Identify the correct six figure grid reference for the following: (i) Δ1352 in the east (235075, 242074, 246073) (ii) Shri Vashisht Ashram (224078, 233079, 213858) (ii) 224078 246073 4. What is the meaning of the following? (i) 22r in grid square 2304 (ii) Sheet rock in grid square 2611 Ans. (i) Relative height or depth of unlived well is 22 meteres. (ii) Kock where overlying soil loyers have been eroded due to mechanical weathering: 5. Measure the straight line distance in km between Gautam Maharishi Mandir and Kodra Reservoir. Ans. 25 Ku approximately 6. What is the general slope of the land in the north-west corner of the map extract? Ans. South east to worth west, 7. Identify two man-made features in grid square 1903. Permanent hets and enebourent along dry tank 8. What is the drainage pattern in grid square 2405? Radial drainage pattern 9. Give the general direction of Gomti Nadi. North east to south west direction. 10. Are the Reservoirs shown in this map extract perennial? Give one evidence. Ans. Yes, both are persuncal. They are coloured blue.

11. State the settlement pattern in grid square 2401.

Ans. Scattered or disported settlement.

Part of Topo Sheet no 45 $\frac{D}{10}$: (Eastings: 18 to 26 and Northings: 01 to 11) 26 45 18 40 Falls 7 m 11 1327 501 1277 Dhunda Sunset Point Telegroph and 35 35 ka Goliya Bhunglawe 1387 ephone line Hetõmji 🦂 09 Kue ka Pahar/ a1401 09 Hanumanji ka Mandir High School 1336 08 Soliya Shri Vashisht Ashram 08 1347 Dense mixed jungle with barn .10 Deoli al352 Gautam Maharishi Mandir 07 76 517 854 06 Q271 jungle with bamboo 443. Kacholi Dungar 05 221 Gajniya Modli 04 25r. 707 Ghorawala Magra 03 Bageri 371 02 Bhakhiyorji Jahyaron ka Naka 45 2820000 Metres 1:50,000 @ Government of India 500 m to 1 cm HEIGHTS & CONTOURS IN METRES 4 2 cm to 1 km 5 Kilometres 500 Metres 1000 CONTOUR INTERVAL 20 METRES

12. Which part of the map extract has cultivable land? Give evidence.
Ans. Southern part of map extended has cultivable land. Felow
No. of the control of
colour indirates cultivable land.
13. What does red broken line in grid square 2301 show?
Ans. A pack track or footpath.
14. Identify landforms in the grid square 2003. Give evidence.
Ans. Coxical hill (-363) and V-shaped valley (I trion originaling through hill)
15. What is meant by falls 25m in grid square 2307?
Ans. It indicates waterfall from the height of 25 metres.
16. What is the drainage pattern in grid square 2307?
Ans. Dendritée drainage pattern.
17. Give the meaning of the following:
(i) Falls 15m in the grid square 2207
Ans. (i) Telegraph and telephone line.
(ii) Waterfall at the height of 15 metres.
18. Name any two man-made features in grid square 1803.
Ans. Cart track and perma neut het.
19. Measure the straight line distance in km between Raj Bhawan in the Abu City and village Chandela (1903).
1 +1
Ans. 8-25 Km approximately.
20. Find out the direction of Deoli from Bhakhiyar (2301).
Ans. North East direction.
21. Describe the vegetation of the region in the map stating reason for the occurrence of dense mixed jungle with
bamboo.
Ans. It has tropical deciduous forests consisting date polius, berries and
Ans. It has tropical deciduous forests consisting date palms, berries and thorny shrubs. Due to watertogging at foothills, bamboo shrubs are abstound
into the government of the contract of the con
22. Describe the general relief of the area.
Ans. Most part of the region is hilly having steep slopes, mountains, ridges, saddle, vallages ett. Southern part is plain region. The highest point ne this region is 1426 motors above sea level.
Ridges, saddle, vallages ett. Southern part is plain Fraisu. The
tien of seint dies of the second
reguest joint he this region is 1726 maper avove sea level.

5 × 6 = 30 sq. M.
Ans. 5 × 6 = 30 5g. Ku.
24. What factors support the development of tourism in this region?
Ans. Raghuathie Haudir, Nakhie Talao, Sunset Point, Palanper Point,
Kodsa Reservoir, waterfalls, temples etc supports tourism here
25. Is the water of perennial well (2401) suitable for drinking purposes? Give reasons.
Ans. Water of personnial lived well (2401) is suitable for
drinking as et is not brackish.
26. The north west corner of the map extract shows a dry tank with embankment (1903). What does it mean?
Ans. Embankurents are racted stock or soil filled constructeous
Made near touts to prevent flooding in the sainy season
27. What is the purpose of having Pipeline in grid square 2209?
Ans. It supplies water to Abu settlement from Kodra Reservoirce
28. Give the four figure grid reference of:
(i) Bhunglawa ka Goliya (ii) Palampur Point
Ans. (i)
29. Find out the direction of Tornagaon (2410) from Nakhi Talao in the north.
Ans. It is in the trast direction.
30. Measure the straight line distance in km from the Raghunathji Mandir in the Abu city to Ghorawala Magr (2503).
Ans. Approximately 8 Km.
Alls. The structure of the contract of the con
31. What is the settlement pattern in grid square (1904)?
Ans. Scattered or dispersed settlement-
32. What is the difference between \triangle 1352 and \bullet 1387 in 2509?
Ans. 1352 is correctly newsured triangulated height.
1387 is spot height estimated from the value of adjacont contour
33. What are the main mode of irrigation found in the area?
Ans. Reservoirs and perennial level wells,
34. Mention any two modes of transport used by people here.
Ans. Metalled good and cast track.

35.	5. Give six figure grid reference for the following:		
	(i) Falls 12m near Kulgarh Nala (ii)	274 in southeast	
Ans.	s. (i) 25 1086 (ii)	236023	
36.	6. What do you find at the grid location 199023? How is this feature different from the one found in grid location 208015?		
Ans.	s. 199023 - Perenorial Rived well having p	rotective wall pround at	
	208015 - Perennial unlived well, no pre	oteche wall around et	
	7. In grid square 1909, several contours merge at one point. Wha	The state of the s	
Ans.	s. It indicates a cliff or vertical steep slope. Peak of the hill is 965 m.		
38.	38. Why there is no water in the rivers flowing in the southern part of map extract?		
Ans.	s. River bed has so dements because the area receives seasonal rainfall		
39.	9. What is indicated by figure 8 written along the metalled road in	grid square 2001?	
	s. It indicates distance stone & Ku		
40.	0. What difference do you notice in the slope of hills in grid squares 2104 and 2204? Give evidence.		
	s. 2104-Gradual slope as contours are at a distance to each other.		
	2204- Steep slope as contours are close to each other.		
41.	1. Name two man-made features in grid square 2208.		
Ans.	s. Harmonjeka Mondin and metalled road.		
42.	2. State two natural features in grid square 2207.		
Ans.	s. Waterfalls and V-shaped Valley	5.	
	3. What is the settlement pattern in the south western part of the map? State the occupations of the people living in this area.		
Ans.	Dispersed settlement. People follow agriculture and lumbering.		
44.	4. What is indicated by figure 501 in grid square 1810.		
Ans.	. Figure 301 in grid square 1810 is	adjanters sont hecality	
	501 above mean sea level.	por reign	
45.	5. Which is the most densely populated region of the map extract	? Name the city alongwith the grid reference.	
Ans.	. Area closs to Abre settlement (2310)	in The northern part of map.	

SECTION B : MAP OF INDIA

Map Pointing Skills-GUIDELINES

(Please note that the labelling should be done in CAPITAL letters preferably using the Arrow.)

1. Mountains and Plateaus:

- (a) To be marked in Brown colour with a single line.
- (b) Direction of the mountain should be kept in mind.
- (c) No mountains to be marked intersecting a river, e.g., Eastern Ghats should not be marked between rivers Krishna and Godavari.
- (d) Western Ghats must not touch the coastline; the same applies to the Eastern Ghats.

2. Plains:

- (a) To be marked in yellow colour.
- (b) The extent of the plains should not exceed the 'limit'.
- (c) The coastal plains should not be marked inside the Coast but bracketed and labeled within the limits.

3. Rivers:

To be marked in Blue colour labelled 'on' the Curve of the river and not 'under'.

4. Water bodies :

To be coloured within the 'limit' and the arrow should be marked accordingly.

5. Passes:

To be marked using the symbol] [in red colour.

6. Latitudes and Longitudes:

- (a) To be marked in broken lines using red colour.
- (b) Should be labeled in degrees (°), 23½ °N for Latitude (Tropic of Cancer) and 82½ °E for Longitude (Standard Meridian).

7. Direction of Monsoon Winds:

- (a) To be marked in blue colour arrows.
- (b) South West Monsoon from South West to North East (June September)
- (c) Retreating Monsoon from North East to South West (October – November)
- (d) North East Monsoon from North East to South West (December – February)

8. Distribution of Minerals:

(a) Only 3 minerals have to be marked for Board exams, i.e. iron ore, coal and oil field.

- (b) Mumbai High (Offshore oilfield in Arabian sea should not touch the coast). Digboi is onshore oil field.
 - (c) Iron ore in Singhbum and Coal in Jharia.

9. Soil Distribution:

- (a) Soils should be marked in a small area as per following colours—
 - (i) Alluvial Soil: Brown
 - (ii) Laterite Soil: Reddish brown
 - (iii) Black Soil : Black
 - (iv) Red Soil: Red
- (b) They should be shaded only in a small area, as per the question asked.
- (c) One must learn one area above the Tropic of Cancer (North) and one area South of the Tropic of Cancer, for all the soils.

10. Towns:

- (a) Only 10 towns to be marked, as given in the syllabus.
- (b) They must be marked with a red dot on the Coast and not in the Ocean (for ports).

11. Population:

The distribution of population as per density to be marked as one point in North India and one point in South India.

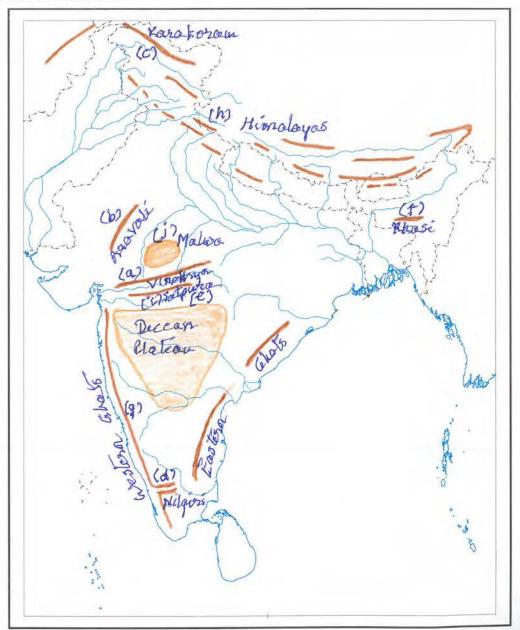
Please Note:

- The map pointing should be strictly as per the question asked in the Board exam. No additional information needs to be done for map pointing.
- Appropriate pencil colours must be used. No Crayon or Sketch Pens should be used.
- Use of Arrows give most specific and exact location in map pointing. Arrow head to be pointed towards the feature.
- While labeling and marking, one must keep in mind, whether the 'Area' or the 'State' is asked in the question.
- If only marking is done and not labelled, no marks are given.
- All marking in the map should be done with reference to the Rivers.

Map Practice

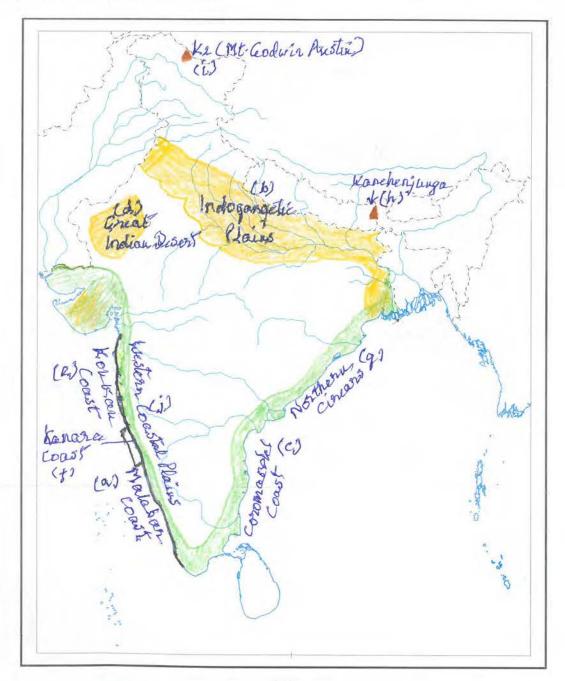
Assignment 1 (Based on Mountains and Plateaus): On the outline map of India provided:

- (a) Mark and name Vindhya Mountains
- (b) Shade and label Aravali Hills
- (c) Mark and name Karakoram Range
- (d) Shade and label Nilgiri Hills.
- (e) Shade and label the Deccan Plateau
- (f) Mark Khasi Hills
- (g) Mark and label Western and Eastern Ghats
- (h) Shade and label Himalayas Mountains
- (i) Mark and lable Satpura Range
- (j) Mark and lable Malwa Plateau



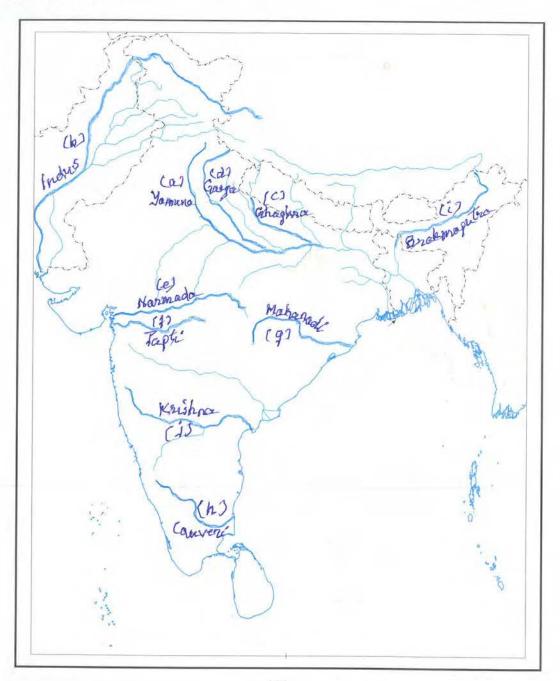
Assignment 2 (Based on Plains, Deserts and Mt. Peaks): On the outline map of India provided:

- (a) Shade and label Malabar Coastal Plains
- (b) Shade and label Gangetic Plains
- (c) Mark and label Coromandel Coast
- (d) Shade and label the Great Indian Desert
- (e) Mark and label Konkan Coast
- (f) Mark and label Kanara Coast
- (g) Mark and label Northern Circars
- (h) Mark and label Mount Kanchenjunga
- (i) Mark and label Mount Godwin Austin (K2)
- (j) Shade and label Western Coastal Plains



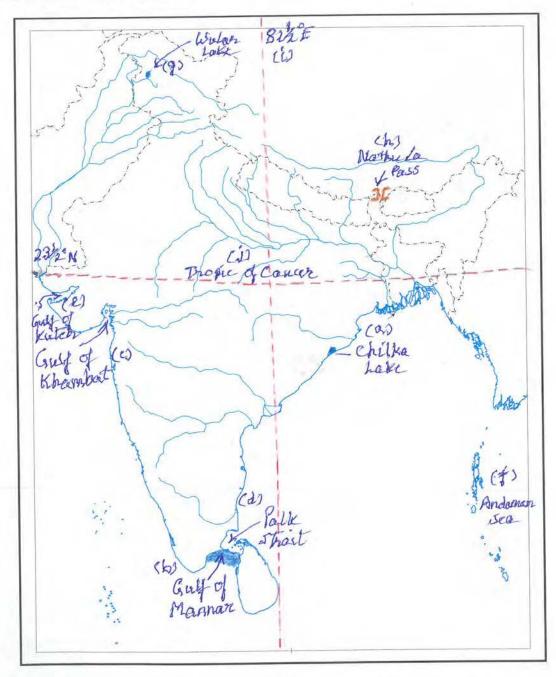
Assignment 3 (Based on Rives): On the outline map of India provided:

- (a) Label the river Yamuna
- (b) Label the river Indus
- (c) Label the river Ghaghra
- (d) Label the river Ganga
- (e) Label the river Narmada
- (f) Label the river Tapti
- (g) Label the river Mahanadi
- (h) Label the river Cauveri
- (i) Label the river Brahmaputra
- (j) Label the river Krishna



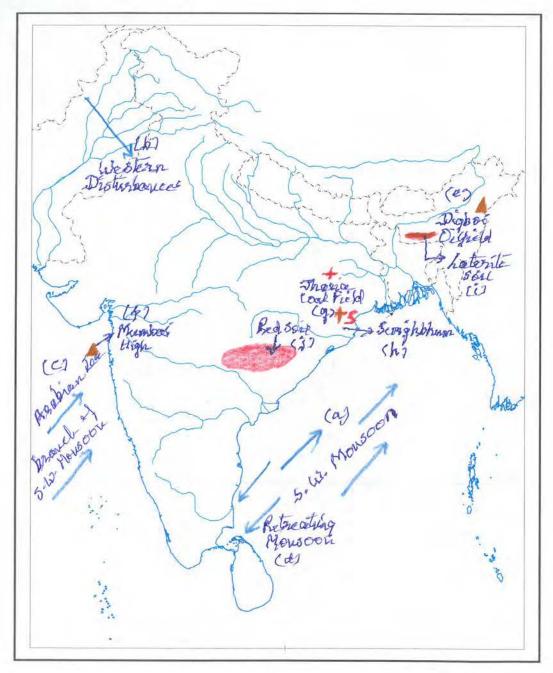
Assignment 4 (Based on Water Bodies, Latitude and Longitude): On the outline map of India provided:

- (a) Mark and name Lake Chilka
- (b) Shade and name the Gulf of Mannar
- (c) Shade and name the Gulf of Khambhat
- (d) Mark and label Palk Strait
- (e) Shade and name the Gulf of Kutch
- (f) Shade and label Andaman Sea
- (g) Mark and name Wular Lake
- (h) Mark and label Nathu-La Pass
- (i) Draw the Longitude 821/2° E.
- (j) Draw and label the Tropic of Cancer



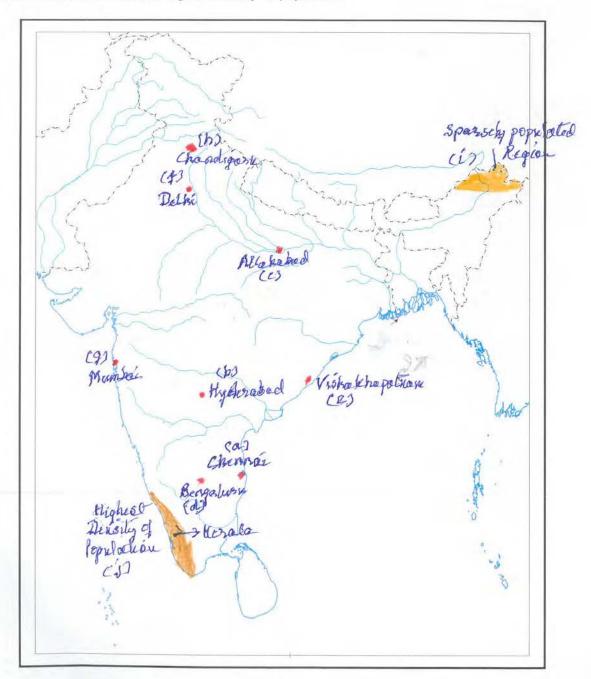
Assignment 5 (Based on Direction of Winds, Distribution of Minerals & Soils): On the outline map of India provided:

- (a) Mark with arrows and name South West Monsoon winds over the Bay of Bengal.
- (b) Mark with a single arrow and name the winds that bring winter rain in northeast India.
- (c) Mark and name the winds which bring rain to Mumbai in July and August.
- (d) Mark with arrows the wind that brings rainfall to Tamil Nadu coast in December.
- (e) Mark and label Digboi oilfields
- (f) Mark and name Mumbai High
- (g) Mark and name Jharia coalfield
- (h) Print S on the iron mines in Singhbhum
- (i) Shade a region with Laterite Soil in Eastern India
- (j) Shade and label an area with Red Soil



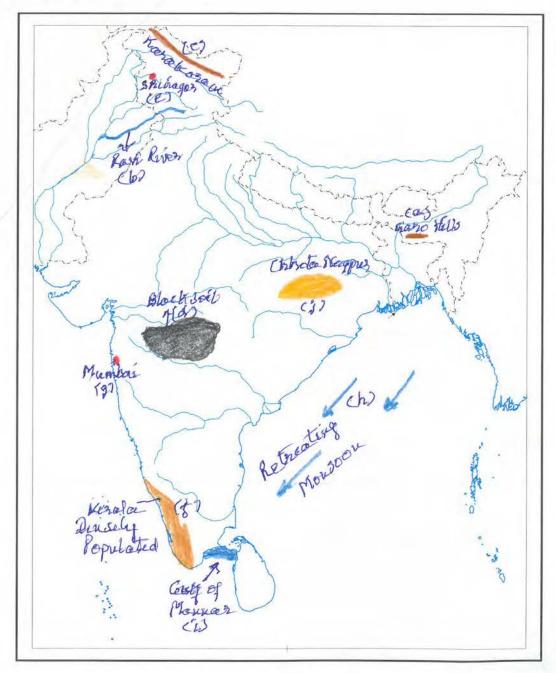
Assignment 6 (Based on Cities and Population): On the outline map of India provided:

- (a) Mark and name Chennai
- (b) Mark and name Hyderabad
- (c) Mark with the red dot and name Allahabad
- (d) Mark a city which is known as the 'Electronics capital of India'.
- (e) Mark and name the port city of Andhra Pradesh
- (f) Mark and label the capital of India
- (g) Mark and label Mumbai
- (h) Mark and label Chandigarh
- (i) Shade and name a sparsely populated region in the northeast of India
- (j) Shade and name the state with highest density of population.



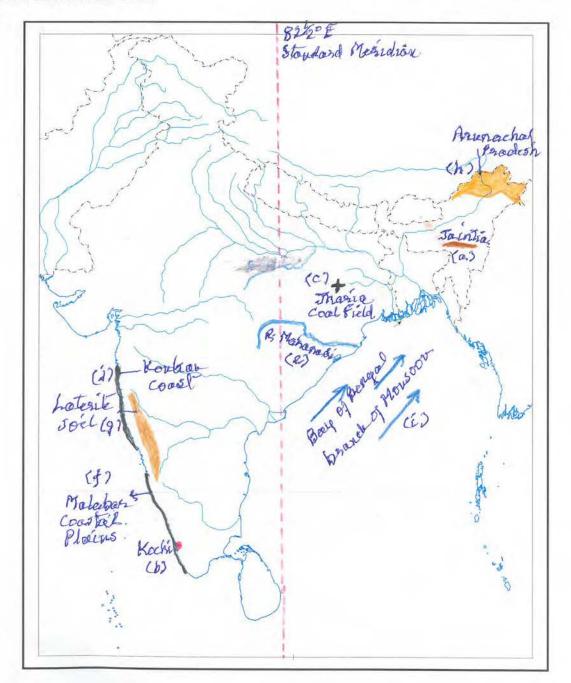
Assignment 7: On the outline map of India provided:

- (a) Shade and label Garo Hills
- (b) Label the river Ravi
- (c) Mark and name Karakoram Pass
- (d) Shade and label an area with black soil
- (e) Mark and name Srinagar
- (f) Shade and label a very densely populated state located in South India
- (g) Mark and name the biggest port city on the West Coast
- (h) Mark with the help of arrows the direction of monsoon winds in Jan.-Feb.
- (i) Mark and label Gulf of Mannar
- (j) Shade and label Chhota Nagpur Plateau



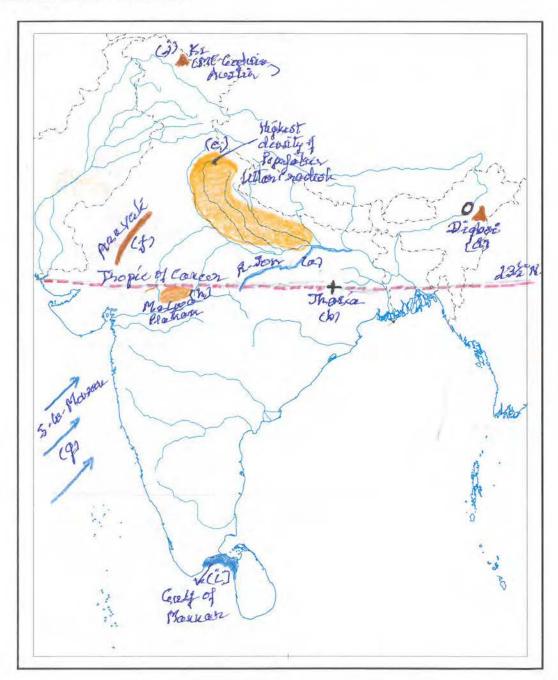
Assignment 8: On the outline map of India provided:

- (a) Mark and name Jaintia Hills
- (b) Mark and name Kochi
- (c) Mark the Jharia coalfields
- (d) Draw and number the Standard Meridian of India
- (e) Label the river Mahanadi
- (f) Shade and label Malabar Coastal Plains
- (g) Mark an area with laterite soil below the Tropic of Cancer.
- (h) Shade and name a state which has low population density
- (i) Mark with the help of arrows the branch of monsoon that brings rain to the north-eastern states
- (j) Mark and label Konkan Coast



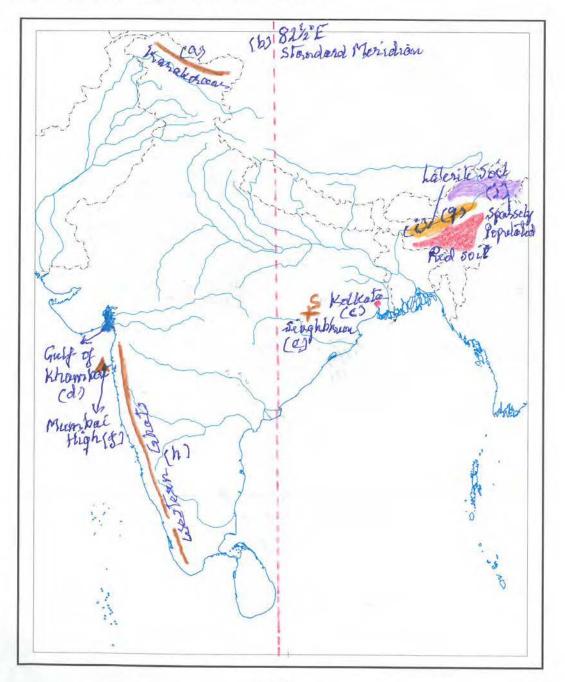
Assignment 9: On the outline map of India provided:

- (a) Label a tributary of Ganga
- (b) Mark a place where coal is found in Jharkhand
- (c) Shade and label a state with highest density of population
- (d) Name and print O on an oilfield in North-East India
- (e) Draw, name and number the Tropic of Cancer
- (f) Mark and name the Aravali Mountains
- (g) Mark with arrows the direction of the Arabian Sea branch of SW monsoon winds
- (h) Shade and label the Malwa Plateau
- (i) Shade and label the Gulf of Mannar
- (j) Mark and label Mount Godwin Austin



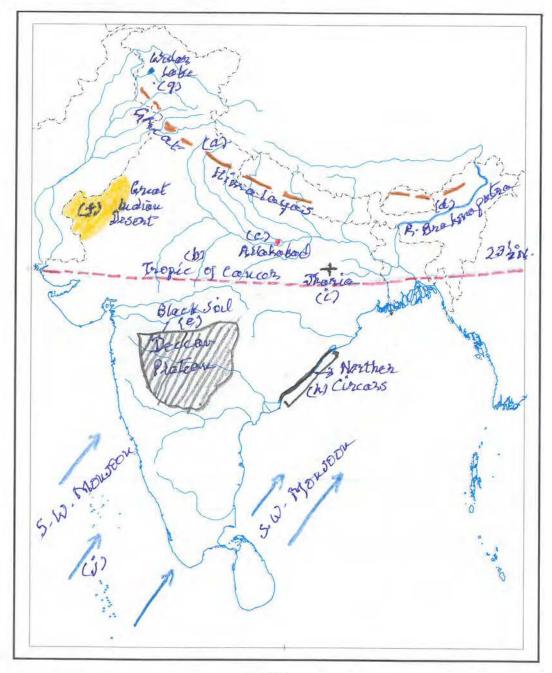
Assignment 10: On the outline map of India provided:

- (a) Shade and label Karakoram Ranges
- (b) Draw the meridian according to which IST is measured
- (c) Mark the city leading in jute textiles
- (d) Mark and label Gulf of Khambat
- (e) Mark ore deposits of Singbhhum
- (f) Mark and name an offshore oilfield
- (g) Shade an area of Red Soil in Eastern India
- (h) Shade and label Western Ghats
- (i) Shade and label an area of laterite soil in the north east
- (j) Shade a sparsely populated region in the north east of India



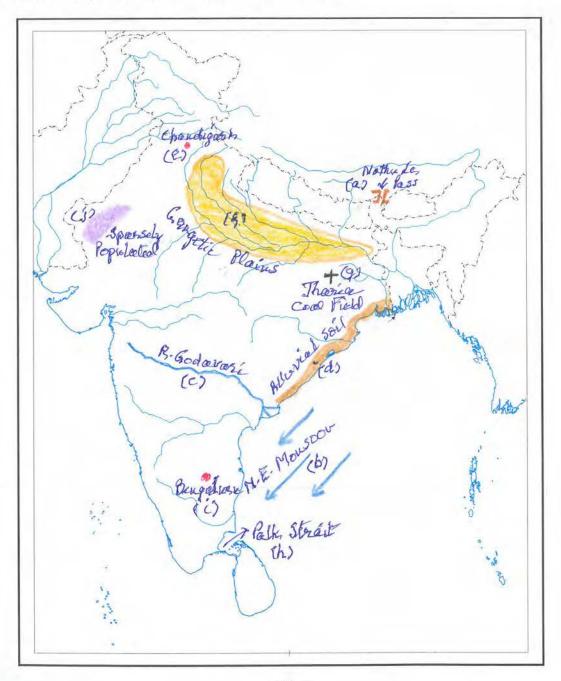
Assignment 11: On the outline map of India provided:

- (a) Shade and label Great Himalayas
- (b) Draw, name and mention the degree of the latitude that divides India into two equal halves.
- (c) Mark with a dot, the town located at confluence of Ganga and Yamuna
- (d) Label the river Brahmaputra
- (e) Shade and label a region which has soil ideal for cotton cultivation
- (f) Shade and label the Great Indian Desert
- (g) Mark and label Wular Lake
- (h) Shade and label Northern Circars
- (i) Mark and label Jharia coalifield
- (j) Mark with arrows the direction of South West Monsoons.



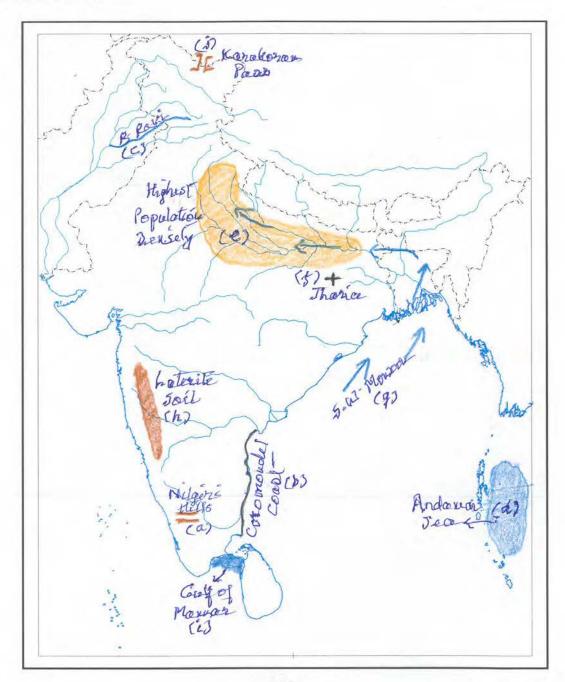
Assignment 12: On the outline map of India provided:

- (a) Mark and label Nathu-La Pass
- (b) Mark and name the winds which bring rain in winter on the eastern coast
- (c) Label the river Godavari
- (d) Shade and label an area of alluvial soil on the Eastern Coast
- (e) Mark and label Chandigarh
- (f) Shade and label Gangetic Plains
- (g) Mark an area having largest reserves of coal in India
- (h) Shade and label the strait between India and Sri Lanka
- (i) Mark and label Bengaluru
- (j) Shade and label a sparsely populated region in Western India.



Assignment 13: On the outline map of India provided:

- (a) Shade and label the Nilgiris
- (b) Mark and label Coromandel Coast
- (c) Label the river Ravi
- (d) Shade and label Andaman Sea
- (e) Shade the state with highest population density
- (f) Mark Jharia coalfields
- (g) Mark with the help of arrows the direction of Bay of Bengal branch of monsoons over Ganga Plains
- (h) Shade an area of laterite soil
- (i) Mark and label Gulf of Mannar
- (j) Mark Karakoram Pass



Assignment 14: On the outline map of India provided:

- (a) Draw and label Tropic of Cancer
- (b) Mark and label Mount Kanchenjunga
- (c) Shade and mark the area getting rainfall by Western Disturbances
- (d) Label the river Chambal
- (e) Mark and label Mumbai High
- (f) Mark with dot and label Chennai
- (g) Shade and label a state having high density of population
- (h) Mark and label Konkan Coast
- (i) Draw the Standard Meridian of India
- (j) Shade an area having red soil

