



St. Mary's Convent Inter College, Prayagraj
Preliminary Examination 2024 - 25

Time : 2hr.

Class- 10
GEOGRAPHY

M.M. : 80

Name : Roll No. Date :

SECTION A

(Attempt all questions from this part)

Question 1

Study the extract of the *Survey of India* Map Sheet No. G43S7 and answer the following questions:

- i.
 - a. Identify the physical features given in four figure grid 3897 and 3796. [2]
 - b. Give six figure grid reference of the temple in the settlement *Jugot. Jyoti Chattui*
- ii.
 - a. Give two reasons to show that the rainfall in the region shown on the map extract is seasonal. [2]
 - b. What is an area, in square kilometers, of the region enclosed by Eastings 33 and 37 and Northings 90 and 95.
- iii.
 - a. What is the occupation of the people living near grid square 3895? [2]
 - b. Measures in kilometers the length of the metalled road from causeway (3396) to settlement *Surajpura* (3594) .
- iv. What is the value of the contour in grid square 3494? [2]
What is the contour interval of the given map?
- v. What do you understand by the following terms as used on the map extract? [2]
 - a. Causeway
 - b. Red Block in 3492

Question 2.

On the outline map of India provided:

- a) Mark and label the Aravali range.
- b) Mark and label the River on which Hirakud dam is built.
- c) Mark and label the city Kolkata.
- d) Mark and label Nathula Pass.
- e) Mark and label Wular Lake..
- f) Shade and label the Konkan coastal
- g) Shade and label Gulf of Mannar.
- h) Shade and label the state with highest population density in South India..
- i) Marks and label offshore oil field in Northeast.
- j) Mark and label the latitude which divides India into two halves.

Question 3.

Choose the correct answer to the questions from the given options:

- (i) Which of the following causes rain to Coromandel Coast? [10]
- | | |
|--------------------------|-------------------------|
| (a) Retreating monsoons | (b) Kal Baisakhi |
| (c) Western disturbances | (d) South west Monsoons |
- (ii) The productive functions of forests include:
- | | |
|--|-----------------------------|
| (a) Habitat for wildlife. | (b) Control the water flow. |
| (c) Provide various products such as timber, fuel wood, leaves, etc. | (d) Producing oxygen. |
- (iii) Which of the following is correctly matched?
- | | |
|--------------------------------|------------------|
| (a) Tube well – Karnataka | (b) Tank-Punjab |
| (c) Lined well - Uttar Pradesh | (d) Canal-Mizora |
- (iv) Which of the following methods of waste disposal is harmful?
- | | |
|----------------|----------------------|
| (a) Composting | (b) Segregation |
| (c) Dumping | (d) Vermicomposting. |



- (v) Copper is alloyed with Zinc to form:
 (a) Stainless steel (b) Brass
 (c) Bronze (d) Aluminium.
- (vi) Which of the following is NOT a problem of Indian agriculture
 (a) Dependence on monsoon (b) Small land holdings
 (c) Two main cropping seasons (d) Use of traditional methods of farming.
- (vii) Which of the following helps in soil conservation?
 (a) Afforestation (b) Overgrazing
 (c) Mining (d) Shifting agriculture.
- (viii) Which of the following is NOT a centre for the iron and steel industry?
 (a) Bhilai (b) Bengaluru
 (c) Rourkela (d) Visakhapatnam
- (ix) Which of the following means of transport is best used during floods / earthquakes?
 (a) Airways (b) Railways
 (c) Roadways (d) Waterways
- (x) Which of the following is done on an individual level?
 (a) Burning (b) Disposal
 (c) Recycling (d) Source reduction

PART II (50 MARKS)

(Attempt any five questions from this Part)

Question 4

(i) During the week of September 26 to October 2, overall, rainfall is likely to be normal to above normal over all except South Peninsular India, IMD said in its extended range forecast on Thursday. Conditions are likely to become favorable for further withdrawal of monsoon from some more parts of northwest India towards the second half of the week. During the week of October 3 to 9, rainfall is likely to be above normal over most parts of central, east and northeast India; normal to above normal over northwest and south Peninsular India during the week. Monsoon is likely to withdraw from some more parts of northwest and adjoining Central India during the week.
 (*Hindustan Times Sep 27, 2024 07:18 AM IST*)

- (a) Name the state which experiences the first withdrawal of monsoon. [2]
 (b) State any one characteristics of withdrawal of monsoon.
- (ii) Write two chief characteristics of the hot dry season. [2]
- (iii) Give a geographical reason for the following: [3]
 (a) Though both are hill stations, Nainital experiences snowfall during the winter but Ooty does not.
 (b) Punjab receives rainfall in the winter season.
 (c) The Central part of the Deccan plateau is a dry area.

(iv) Study the data of distribution of temperature and rain for Station X and answer the questions that follow:

Mon.	J	F	M	A	M	J	J	A	S	O	N	D
Temp °c	10	11	23	35	39	42	40	33	30	25	13	11
Rainfall Cm	2	1	0	5	15	62	71	81	59	12	10	3

- (a) Is Station X in the coastal area or in the interior of the country? [3]
 (b) Calculate the total annual rainfall for Station X.
 (c) Name the wind that brings most of the rainfall to Station X.

Question 5

- (i) It is usually low in nutrients and humus and can be difficult to cultivate due to its low water holding capacity; however, the fertility of these soils can be optimised with liming and other farming techniques.
- (a) Name the soil mentioned in the above extract. [2]
- (b) Name one region where this soil is found in South India. [2]
- (ii) With reference to methods of prevention of soil erosion answer the following: [2]
- (a) Name the method used to prevent soil erosion by running water.
- (b) Name the method used to prevent soil erosion by wind.
- (iii) State difference between Alluvial soil and Black soil. (3 points) [3]
- (vi) Give a geographical reason for each of the following: [3]
- a) Laterite soil is used in Goa and Kerala for construction of houses.
- b) Khadar soils are preferred over Bhangar soil.
- c) Black soil is black in colour.

Question 6

- (i) State two ways in which forests help in protecting the environment. [2]
- (ii) Mention any two characteristics of Tropical Desert vegetation. [2]
- (iii) Ashok had lost his way when he went to a forest region which is dark and wet, many poisonous insects and snakes were seen, he even heard the sound of a tiger, he got frightened when he was completely drenched with heavy torrential rainfall with lightning. [3]
- a. Which natural vegetation belt did he come across?
- b. State characteristics of this natural vegetation belt.
- c. Name two trees that grow there.
- (iv) Name the natural vegetation found in the following regions. [3]
- a. The western slopes of the Western Ghats.
- b. The Nilgiris.
- c. Western Rajasthan.

Question 7

- (i) Give a reason for each of the following: [2]
- a) Agriculture sector in India needs the support of irrigation.
- b) Well irrigation is a popular means of irrigation in Northern India.
- (ii)
- a) What is the advantage of using Drip irrigation? [One point] [2]
- b) Why is Drip irrigation not practiced on a large scale in India? [3]
- (iii) Mention two advantages and one disadvantages of tube well irrigation. [3]
- (iv)
- a) Name the water conservation practice shown in the picture.
- b) Mention two advantages of using this method of water conservation.



Question 8

- (i)
- a) Name any two varieties of Coal produced in India. [2]
- b) Name the variety of Coal widely used in Iron and steel Industries India. [2]
- (ii) Why is conventional source of energy not considered an eco-friendly source of energy? [3]
- (iii)
- a) Across which river the Bharkra Nagal dam is constructed.
- b) Mention one advantage of using Biogas.
- c) Name the state which is the leading producer of Copper in India.

(iv) Name the following:

[3]

- A mineral used to generate nuclear energy.
- A mineral used to manufacturing of Steel.
- Mention one advantage of wind energy.

Question 9

(i) State two problems faced by Indian farmers.

[2]

(ii) Name the crop which is related to ratooning.

[2]

What are the advantages of Ratooning?

(iii)

[3]

- What is the ideal climatic condition for growing the crop shown in the picture?
- State any two methods of sowing the above crop.
- Which state is the largest producer of the above crop?



(iv)

- Mention climatic condition found suitable for growing oilseeds.
- State any two economic advantages of growing oilseeds.

[3]

Question 10

(i) How are industries important for India? (two points)

[2]

(ii) State any two problems faced by the sugar industry.

[2]

(iii) With reference to Rourkela Steel Plant, answer the following questions:

[3]

- Where is it located?
- From where does it get its Coal and Power?
- From where does it get its Iron ore?

(iv) Name the place where following are manufactured in India:

[3]

- Shipbuilding industry
- Silk industry
- Locomotive parts

Question 11

(i) Why is it important to have well developed means of transport in India?

[2]

(ii) State one advantage and one disadvantage of roadways.

[2]

(iii) Give a geographical reason for the following:

[3]

- Northern plain is best suited for the development of railways.
- The South Indian river is not ideal for inland water transport.
- NSEW corridor is helpful for India.

(iv) "Though an expensive mode of transport, airways are gaining popularity in India".

Give three reasons for the above statement.

[3]

Question 12

(i) What is the biggest problem in waste management in India?

[2]

(ii) (a) How is segregation of the waste helpful?

[2]

(b) State one way in which this method may be implemented at our home.

(iii) Mention three advantages of composting.

[3]

(iv) How is recycling of waste helpful? Give an example of recycling of waste.

[3]