

PART I (30 Marks)

(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) Give the *six-figure* grid reference for spot height **.522**. [2]
(b) What is the *pattern of settlement* in the grid square **3591**?
- (ii) (a) Mention **two man-made features** seen in the grid square **3794**. [2]
(b) Mention **two means of transport** used by the people of Nani Bhatamal in the grid square **3691**.
- (iii) (a) Identify the *landform* marked by the contours in the grid square **3896**. [2]
(b) What is the *pattern of drainage* seen in the grid square **3697**?
- (iv) (a) What is the reason for the *presence of causeway* in the grid square **3695**? [2]
(b) What is the *compass direction* of Khara (**4097**) from Karja (**3994**)?
- (v) Calculate the *area in kilometre square* of the region to the **south of 94 Northing**. [2]

Question 2

On the outline map of India provided:

- (i) Mark and label the *river Krishna*. [1]
(ii) Mark and label the *Eastern Ghats*. [1]
(iii) Shade and label a *densely populated area* in the *southern part of India*. [1]
(iv) Shade and label the *Konkan coastal plain*. [1]
(v) Mark with an arrow and label the direction of western disturbance. [1]
(vi) Shade and label the *Thar Desert*. [1]

- (vii) Shade and label the *Andaman Sea*. [1]
- (viii) Mark and label the city *Chennai*. [1]
- (ix) Mark and name the *highest peak of Himalayas in India*. [1]
- (x) Mark and label *Mumbai High*. [1]

Question 3

Choose the correct answers to the questions from the given options. [10]

(Do not copy the questions, write the correct answers only.)

- (i) What causes snowfall in Kashmir *during winter*?
- (a) Tropical cyclone
 - (b) Northeast Monsoon wind
 - (c) Southwest Monsoon wind
 - (d) Temperate cyclone
- (ii) Which of the following helps in soil conservation?
- (a) Afforestation
 - (b) Overgrazing
 - (c) Mining
 - (d) Shifting agriculture
- (iii) Which means of irrigation can be developed with minimum expenditure?
- (a) Tube well
 - (b) Canal
 - (c) Well
 - (d) Drip irrigation

(iv) Read the table and identify the pair that is correctly matched:

	Natural Vegetation Belt	Tree
P	Tropical evergreen	Babool
Q	Tropical deciduous	Teak
R	Littoral	Ebony
S	Mountain forest	Banyan

- (a) P
- (b) Q
- (c) R
- (d) S
- (v) Bauxite is the ore of:
- (a) Aluminium
- (b) Copper
- (c) Manganese
- (d) Iron
- (vi) Identify the source of energy that leads to pollution:
- (a) Tidal energy
- (b) Wind energy
- (c) Natural gas
- (d) Geo-thermal energy
- (vii) Which of the following is **NOT** a centre for the iron and steel industry?
- (a) Bhilai
- (b) Bengaluru
- (c) Rourkela
- (d) Vishakhapatnam

- (viii) Which of the following farming method is used to grow tea on a large scale?
- (a) Subsistence farming
 - (b) Plantation farming
 - (c) Mixed farming
 - (d) Shifting agriculture
- (ix) Which of the following means of transport has best use during floods / earthquake?
- (a) Airways
 - (b) Railways
 - (c) Roadways
 - (d) Waterways
- (x) Which of the following is a biodegradable waste?
- (a) Broken glass
 - (b) Wastepaper
 - (c) Polythene
 - (d) Plastic bags

PART II (50 Marks)

(Attempt any five questions from this Part.)

Question 4

- (i) 'Himalayas act as a climatic divide.' Justify the statement giving two reasons. [2]
- (ii) Differentiate between Southwest Monsoon and Retreating Monsoon. (*Any two differences*) [2]
- (iii) Give a geographical reason for the following: [3]
- (a) Kolkata gets more rain than Delhi during rainy season.
 - (b) Though both are hill stations, Shimla experiences snowfall during the winters but Ooty does not.
 - (c) Winter monsoons bring less rain.

(iv) Study the climate data of Station X and answer the questions that follow: [3]

Month	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Temp C	8.4	11.5	21.6	28.3	35.1	38.5	41.0	38.0	30.8	29.2	15.6	10.2
Rainfall cms	1.5	0.9	0.5	–	–	12.5	17.8	18.5	12.5	12.5	6.2	2.1

- (a) Calculate the annual range of temperature of Station X.
- (b) Name the rainiest month of the Station X.
- (c) Is the Station X located in coastal area or in the continental interior?

Question 5

- (i) Why is Black soil found suitable for the production of cotton? (*Any two points*) [2]
- (ii) Give *one* difference between each of the following: [2]
 - (a) Alluvial soil of *Uttarakhand* and alluvial soil of *West Bengal*.
 - (b) Transported soil and residual soil.
- (iii) With reference to *Laterite soil*, answer the questions that follow: [3]
 - (a) How is Laterite soil formed?
 - (b) How can Laterite soil be made productive?
 - (c) Name *one* region where Laterite soil is found.
- (iv) (a) Mention *two* causes of soil erosion in India. [3]
(b) Mention a soil conservation method suitable for hilly area.

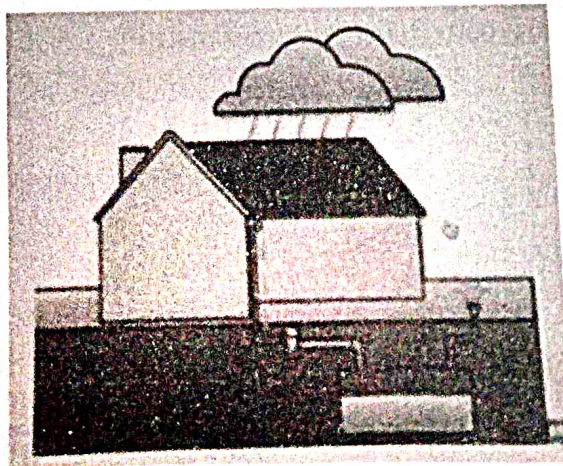
Question 6

- (i) How is tropical monsoon forest useful for the Indian economy? (*Any two points*) [2]
- (ii) Mention the climatic condition that leads to the development of tropical desert vegetation. [2]

- (iii) Give a reason to explain each of the following: [3]
- (a) Mountains have varied vegetation.
 - (b) Stilt like / aerial roots are a typical feature of littoral forest.
 - (c) The tropical evergreen forests do not look bare at any time of the year.
- (iv) (a) How has the rising population of India resulted in the loss of forest cover? [3]
(Any one point)
- (b) Mention *any two* forest conservation methods that may be adopted to protect the forests.

Question 7

- (i) Mention *one* advantage and *one* disadvantage of using tank irrigation. [2]
- (ii) (a) What is the advantage of using Drip irrigation? [2]
- (b) Why is Drip irrigation not practiced on a large scale in India?
- (iii) Give a reason to explain each of the following: [3]
- (a) Sprinkler irrigation is gaining popularity in recent times.
 - (b) Tube well irrigation is used in Punjab.
 - (c) North India has more area under canal irrigation.
- (iv) [3]



- (a) Name the water conservation practice shown in the above picture.
- (b) How does this system help to reduce floods?
- (c) Why is water conservation necessary? (Any two reasons)

Question 8

- (i) (a) Name *any three* varieties of coal produced in India. [2]
(b) Name the *variety of coal* widely used in Iron and Steel Industries of India.
- (ii) (a) Name the state that is the largest producer of iron ore in India. [2]
(b) Name *any one* mining area of Iron ore from the state mentioned by you.
- (iii) (a) Mention *two* ways in which *Hirakud dam* has helped the people of Odisha? [3]
(b) Across which *river* is the *Hirakud dam* built?
- (iv) Give reasons for each of the following: [3]
(a) *Geothermal* energy is not popular in India.
(b) *Solar energy* is gaining popularity.
(c) *Petroleum* is considered a harmful source of energy.

Question 9

- (i) Why is agriculture considered an important sector of Indian economy? (*Any two points*) [2]
- (ii) (a) What is *mixed farming*? [2]
(b) Mention *any one* advantage of mixed farming.
- (iii) Give *one* reason to explain each of the following: [3]
(a) West Bengal is a leading producer of jute.
(b) Millets are fast becoming the popular food crops.
(c) More than two ratoon crops are not advisable for sugarcane farmers.
- (iv) (a) With reference to tea cultivation, explain the term 'fine pluck'. [3]
(b) Name the Indian state that leads in coffee production.
(c) Why is cotton grown as a Kharif crop in India?

Question 10

- (i) (a) Based on the ownership, what type of industry is Visakhapatnam Steel Plant? [2]
(b) What is meant by cooperative sector industry?
- (ii) Explain the following terms: [2]
(a) Sericulture
(b) Integrated steel plant
- (iii) Give *one* reason to explain each of the following: [3]
(a) *Mini-steel plants* help in conservation of coal.
(b) Location of *sugar industry* is shifting to the southern part of India.
(c) The electronic industry is growing at a fast rate.
- (iv) (a) State *two* conditions that favour the location of cotton textile industry in Ahmedabad. [3]
(b) State *any one* advantage of locating Iron and Steel industry at Rourkela.

Question 11

- (i) Why is *road transport* an important means of transport in India? (*Any two reasons*) [2]
- (ii) Give a reason for each of the following: [2]
(a) Northern plain is best suited for the development of Railways.
(b) Railways are managed completely by the Central Government.
- (iii) Mention *two* advantages and *one* disadvantage of Inland water transport. [3]
- (iv) Why has airway become more popular than other means of transport? (*Any three reasons*) [3]

Question 12

(i) With reference to the picture below, answer the questions that follow:

[2]



(a) Which waste management method is depicted here?

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

(ii) Explain how waste accumulation can be harmful. (*Any two points*)

[2]

(iii) Explain how waste generated in following sectors *may be made useful*. (*Give one example for each*)

[3]

(a) Household

(b) Industry

(c) Agriculture

(iv) (a) Give *two* uses of composting.

[3]

(b) Why are landfills set up far away from the city? (*Any two reasons*)