

Std: X

Marks: 80

Date: 05/12/19

Subject: Geography

Dur. : 2 Hrs

PART I (30 Marks)

Attempt all questions from this part.

Question 1

Study the extract of the survey of India map sheet No. 45D/10, YEAR(2014) and answer the following questions:

- a. Give six figure grid reference of :- 2
- A temple in Jolpur.
 - Spot Height 323
- b. Calculate the distance along the cart track from Settlement Dantrai to Settlement Dhana in Kilometers and meters. 2
- c. i. Calculate the area of the region to the west of Eastings 04. 2
- If you were to walk at a speed of 5 kilometers per hour ,how much time would it take for you to cover the North –South distance depicted on the map.
- d. Differentiate between:- 2
- 4r in grid 0218 and 3r in grid 0422.
 - Settlement pattern in grid 0124 and 0819
- e. Draw the conventional symbol for:- i) Spring ii) A perennial unlined well. 2
- f. i. What is the common mode of transport in the area shown to you on the map extract? 2
- What indicates that it may not be of perennial use in some parts?
- What is the occupation of the people living in the area shown in the map extract?
- Justify your answer.
- g. What does the term 'open scrub' in grid (0721) tell you about the rainfall of this region? 2
- Which other two features on the map indicates the same.
- h. i. What is the Statement Scale of the given map? Why is it not universally accepted? 2
- Explain the term ' Sheet Rock'.
- i. i. Mention any two natural features in grid 0524. 2
- State the drainage pattern in grid 0523

j. Identify the following:-

- i. Black broken lines in grid 0321.
- ii. A contour feature in grid 0525

Question 2

On the outline map of India provided:

- a. Mark and name Allahabad
- b. Mark and label Nathula Pass
- c. Mark and label River Sutlej
- d. Mark and label Chotanagpur Plateau
- e. Mark and print where iron ore is mined
- f. Shade and label a region of laterite soil in Peninsular India
- g. Shade and label Konkan Coast
- h. Mark and name the winds that bring rainfall to Mawsynram
- i. Shade and name a region of sparse population in the North East of India.
- j. Mark and label the Indian Standard Meridian.

PART II (50 Marks)

Attempt any five questions from this Part

Question 3

a. Explain the term:- i) Monsoon ii) Jet Streams

b. State any two effects of adjoining water bodies on the climate of India.

c. Give Reason:-

i. The Ganga plain gets the monsoon rain much later than the western coast of India.

ii. Kolkata receives heavier rainfall than Lucknow.

iii. India has a tropical monsoon type of climate.

d. Study the climatic data of station X given below and answer the following questions that follow :-

Month	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Temp [°] c	10.5	11.3	23	35.6	39.3	42.7	40.6	33.4	30.4	25	13.6	11.4
Rainfall cm.	2.1	1.3	0	5.3	15.4	62.8	71.6	81	59.4	12.7	10	3.5

i. Is Station X in the coastal area or in the interior of the country?

ii. Calculate the total annual rainfall for Station X.

iii. Name the wind that brings most of the rainfall to Station X.

Question 4:-

- a. How is Regur Soil formed? In what way does Regur Soil help agriculture? 2
- b. Name the following:- 2
- i. An important transported Soil in India.
- ii. The soil that forms the second largest soil group in India.
- c. How is Laterite Soil formed? State two characteristics of laterite soil which makes it infertile. 2
- d. Give Reason:- 2
- i. Contour Ploughing is an ideal soil conservation method for hilly regions.
- ii. Man is largely responsible for soil erosion.
- e. i. Name a part of India where wind is an important agent of erosion. 2
- ii. Mention any two advantages of Red Soil.

Question 5

- a. State any two characteristic features of the forest found in Sunderbans. 2
- b. i. Why do Tropical Evergreen Forests appear green all through the year? 2
- ii. Why is it difficult to exploit Rain forest?
- c. i. Under what climatic conditions do Monsoon Vegetation thrives. Mention any two states where these forests are found. 3
- ii. Mention any two characteristics of Tropical Thorn Forest
- d. i. What is Reafforestation? 3
- ii. How does absence of forest cover lead to floods?
- iii. There is a gradual increase in forest cover in recent times.

Question 6

- a. Give two main reasons why water scarcity occurs in India. 2
- b. i. Give a reason for the significance of irrigation in Punjab. 2
- ii. Why are Inundation canals being converted to perennial canals?
- c. Mention any one advantage and one disadvantage of tubewells over surface wells. 2
- d. What are tanks? Why is tank irrigation preferred over other means of irrigation in the Deccan? 2
- e. Briefly explain the following terms:- 2
- i. Furrow Irrigation.
- ii. Rooftop rainwater harvesting

Question 7

- a. Mention two advantages of Tidal Energy as a source of power. 2
- b. i. Besides Digboi, name two other places producing oil in the North –East India. 2
- ii. How is oil transported to countries situated far away?
- c. Mention any two disadvantages of Hydel Power. 2
- d. i. Why is coal often referred to as 'Black Gold'? 2
- ii. Name two industries where Bauxite is used.
- e. i. Which is the best quality of Iron Ore? Why? 2
- ii. Name one place in Odisha and Jharkhand which has large Iron Ore deposits.

Question 8

- a. With reference to rice cultivation, answer the following:-
- i. Why does rice grow well in a soil with a clay like subsoil? 2
- ii. What is the advantage of growing rice in nurseries before it is transplanted?
- b. Give the geographical requirement for the cultivation of tea. 2
- c. Give one reason for each of the following: 2
- i. The groundnut crop is often used as a rotation crop with bajra, jowar and gram.
- ii. What is meant by 'clonal planting'?
- d. What are the uses of Soyabean? How is it cultivated? 2
- e. Which type of soil is suitable for sugarcane cultivation? What extra care needs to be taken for soil health when sugarcane is cultivated? 2

Question 9

- a. i. What is Sericulture? 2
- ii. Give two reasons why it is concentrated in Bengaluru—Mysore region.
- b. Which states have emerged as the most important cotton manufacturing centres in India and Why? 2
- c. i. Name any one centre each of Sugar Industry in Uttar Pradesh and Maharashtra. 2
- ii. Why is Iron and Steel Industry mainly concentrated in the Chotanagpur belt?
- d. i. What is the significance of the Electronics Industry in recent times? 2
- ii. Name two cities that have leading Software Companies.
- e. Name the following:- 2
- i. Two petrochemical units.
- ii. Two products of Heavy Engineering industry

Question 10

- a. i. Name the first expressway constructed in the country. 1
ii. Mention one advantage and one disadvantage of Inland Waterways. 2
- b. Give Reason:- 2
i. There is lack of rail transport in northern India.
ii. The rivers of peninsular India are not suitable for navigation.
- c. With reference to Roadways, answer the following questions:- 2
i. How does road transport supplement the other means of transport?
ii. Mention any two disadvantages of road transport.
- d. i. List the advantages of air transport in a country like India. 3
ii. What is the economic importance of oceanic waterways in India.
iii. Name the International Airport of Delhi.

Question 11

- a. i. Explain the term 'Bio magnification'. 2
ii. Name the epidemic which was caused by Bio magnification on a large scale in an Asian country.
- b. i Which nodal agency is responsible for generating environmental consciousness and implementing schemes for environmental protection? 2
ii. What is role of government in waste management? 3
- c. i. What is Composting? 3
ii. State two advantages of composting.
- d. i. How is Eutrophication deteriorating our fresh water bodies? 3
ii. Mention any two ways by which you can reduce environmental pollution.