

Half Yearly Examination 2016-2017

Std. : X

Full Marks : 80

Subject : GEOGRAPHY

Time : 2 Hrs.+15min. Reading time

Attempt seven questions in all. Part I is compulsory.
A total of five questions are to be attempted from Part II.

Part I (30 Marks)

Q1. Study the extract of the survey of India map sheet no. 45D/10 and answer the following questions.[20]

- a) Name and give the four figure grid reference of a settlement where the Police Chauki is found.[2]
- b) i) What does the conventional symbol at grid reference 147131 mean ? [2]
ii) Mention the four figure grid reference of the confluence of the Sipu Nadi and the Dior Nadi.
- c) If a man were to walk from Hathal to Anadra : [2]
i) In which direction would he be walking ?
ii) Mention one feature of the road he would be using to go to Anadra.
- d) i) What is the nature of the canal found on the toposheet ? [2]
ii) Measure the canal in Kilometres.
- e) i) Mention the spot height and contour height in the grid reference 1516 and also write the difference in elevation between two. [2]
- f) Name and explain the term used for the brown lines found on the toposheet. [2]
- g) i) How does the R.F. score over the verbal scale ? [2]
ii) Write the contour Interval of the mapsheet.
- h) i) What do the following mean. [2]
a) Brakish in 1915
b) 4r in 1519
- i) i) Identify two landforms formed by contours in the grid square 2013. [2]
ii) Identify the drainage system in the grid square 2018.
- j) Calculate the area in kilometres of the land enclosed with the Eastings 17-20 and northings 15-20. [2]

Q2. On the outline map provided to you : [10]

- a) Label the river Gomti and river Krishna.
- b) Mark and name the Malabar coast and Lake Chilka.
- c) Draw and name the Tropic of cancer.

- d) Mark with arrows and name the winds that bring rainfall for Tamil Nadu in winter.
- e) Label the Na-Thu-La pass.
- f) Mark and label the Gulf of Mannar.
- g) Shade and name a region with black soil in India.
- h) Print 'S' on the iron ore mines found in Jharkhand.
- i) Shade and label the Aravallis.
- j) Mark with a red dot and label Delhi.

Part II (50 Marks)
(Attempt any five questions)

- Q3.** a) There are great variations in India's climate, explain why. Write any two factors. [2]
- b) i) Write the main cause of winter showers in the western Uttar Pradesh ? [2]
ii) Mention one climatic difference between Mumbai and Delhi in the month of June.
- c) Give a geographical reason for the following : [3]
i) The Konkan coast experiences orographic rainfall.
ii) Rainfall affects the economy of the country.
iii) The north east monsoon brings almost no rains to the most parts of India.

Station	Temp ^{°C}	Jan	Feb	Mar	April	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
A	Rainfall cm	4.6	1.8	1.3	1.8	3.8	4.5	8.7	11.0	11.9	30.6	35.0	13.9

- d) Study the climatic data given below and answer the questions that follow. [3]
i) Calculate the average rainfall experienced by the station.
ii) In which hemisphere does the station lie ? Give a reason for your answer.
iii) If you have to give a name to the station. What name would you give and write a reason for your answer.
- Q4.** a) i) State one difference between alluvial soils found in the lower courses and the upper courses of rivers. [2]
ii) In what way does regur soil help in agriculture ?
- b) i) Explain the formation of Red soil. [2]
ii) Mention two minerals present in the black soil.
- c) i) How does soil get nitrogen ? [3]
ii) Is laterite soil transported or Residual ? Mention one reason to explain its unproductiveness.
iii) Mention two areas where that soil is found.
- d) i) Red soils are considered to be infertile and yet productive, explain how ? [3]
ii) Define Pedogenesis and crop rotation.

- Q5.** a) i) How do forests help in increasing soil fertility ? [2]
ii) Mention one important factor related to the environmental conservation by the Littoral forests.
- b) i) Give two reasons for the depletion of forest resources in India. [2]
ii) Write one use of the each of the following :
a) Datura b) Alovera
- c) i) Which type of forests do the following tree belong to :— [3]
1) Hintal 2) Chin Pine 3) Teak 4) Kikar
ii) Define joint forest management.
- d) Give a reason for the following [3]
i) India has huge diversity in flora and fauna.
ii) Trees of thorn forests have small leaves and thorns.
iii) Tropical Monsoon forests are found in Assam.
- Q6.** a) Irrigation in India faces many problems, write any two points. [2]
b) i) Mention two conditions essential for tubewells. [2]
ii) Why do Inundation canel dry up in summer ?
c) i) What do you mean by lined wells ? [3]
ii) Mention two advantages of tank irrigation
d) i) Why is there urgent need to conserve water resources. Write any two points. [3]
ii) Name the canal system of river Mahanadi and of Sutlej river.
- Q7.** a) Mention two reasons why minerals are important in India. [2]
b) Name the following :—
i) Any one raw material derived from coal. [2]
ii) Carries rock of mineral oil.
iii) The oldest oil field in India.
iv) One oil refinery in the private sector.
c) i) Why is limestone considered a valuable mineral ? [3]
ii) Write the significance of Bauxite.
iii) Which two districts in Orissa has deposit of Manganese ?
d) i) Why is coal called black gold ? [2+1]
ii) Mention two energy minerals.
- Q8.** a) i) What is ratooning ? [2]
Write two disadvantages of Jhumming agriculture.
b) i) Why is there a shift of subsistence agriculture to commercial farming ? [2]
ii) Define shelter belts.
c) Give a reason why
i) Rubber is mostly produced in Kerala. [3]

- ii) Oil cake is a useful residue.
- iii) Groundnut is an important rotation crop.
- d) i) Why is West Bengal leading producer of Jute ? [2+1]
- ii) Mention two coarse grains.
- Q9.** a) i) Why is silk industry considered as a small scale industry ? [2]
- ii) What do you mean by light industries ?
- b) Give a reason why
- i) Kolkata has many cotton mills though cotton is not grown in West Bengal. [2]
- ii) There has been a decline in jute industry in India.
- c) i) Mention two industrial use of the by products of sugar mills. [3]
- ii) Mention two Industries using plant fibres.
- iii) How are agro based industries related to agriculture.
- d) i) Write two problems faced by silk Industries. [3]
- ii) Mention two varieties of non-mulberry silk.
- Q10.** a) i) Why does Jharkhand lead in the Iron and Steel Plants ? [2]
- ii) Mention two steel plants found in South India.
- b) Name a centre for each of the following product :— [2]
- i) tractors
- ii) Locomotives
- iii) Machine tools
- iv) Mig aircraft.
- c) Give a reason why. [3]
- i) Mini steel plants cause less pollution
- ii) Most petrochemical Industrial units are in Maharashtra and Gujarat.
- iii) Electronic industries are very important today.
- d) With reference to the shipping industry :— [3]
- i) Which category does this industry belong to ?
- ii) Name any two biggest shipyards in India.
- iii) Mention any two basic factors necessary for this industry.
- Q11.** a) Most of the northern states have high density of roads, why ? [2]
- b) i) What is golden quadrilateral ? [3]
- ii) Mention two ways in which it will help in the economic development of the country.
- c) i) Waste segregation is important, give a reason to support your answer. [2]
- ii) State two sources of gaseous waste.
- d) i) Mention two effects of oil spill. [3]
- ii) Define Biomagnification.