

Quarterly Examination 2017-2018

Std. : X
Subject : Geography

Full Marks : 80
Time : 2hrs.+15 min.

- o Answer all questions from Part I.
- o Answer any five questions from Part II.
- o Write all answers and sub divisions in a serial order.

Part I [30 marks]

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

- Q.a)** (i) Give the four figure grid reference of the settlement of Hamirpura. [2]
(ii) Give the six figure grid reference of the temple in Jolpur settlement.
- Q.b)** (i) Mention the natural feature found in grid square 0721. [2]
(ii) What is the compass direction of Dantrai from Jolpur ?
- Q.c)** What is the difference between the :
(i) Pattern of settlement in 0725 and the settlement of Idarla? [2]
(ii) Drainage pattern of the streams in 0624 and those in 0824.
- Q.d)** (i) What is the value of contour line in square 0226 ? [2]
(ii) Write the unit used for expressing heights on the toposheet.
- Q.e)** Mention two factors which provide evidence that the region in the map extract is a rural area. [2]
- Q.f)** (i) How does the feature, indicated by the black curves in 0721, show that rainfall in this region is seasonal. [2]
(ii) Mention one feature found in grid square 0425, which is an evidence for seasonal rainfall.
- Q.g)** (i) Name two natural features in 0527. [2]
(ii) Name the man made features in 0235.
- Q.h)** Name two features which make Dantrai an important settlement than the other settlements in the map. [2]
- Q.i)** Calculate the area of region enclosed within northings 19-24 and eastings 04-08. [2]
- Q.j)** What are the following ? [2]
(i) The black vertical line between eastings 09 and 10.
(ii) 302 in grid square 0425.
- Q.2)** On the outline map provided : [10]
(a) Mark and label river chambal and gandak.

- (b) Shade and label Andaman sea and Mount Kanchenjunga.
- (c) Label the coromandal coast.
- (d) Shade and label satpura Range.
- (e) Shade and name the Gulf of cambay.
- (f) Mark and name standard time meridian.
- (g) Label Na-tha-La Pass.
- (h) Mark with arrows and name the winds that bring rainfall for mumbai.
- (i) Mark and name a region where alluvial soil is found.
- (j) Lable Digboi oilfield.

Part II [50 marks]

Answer any five questions)

- Q.3)** (a) State two differences between the rainfalls that occure from June to September ane that from December to February in North India. [2]
- (b) State the climatic significance of Himalayas for the people of India. [2]
- (c) Give a reason for the following. [3]
- (i) Patna gets heavier rainfall than varanasi.
 - (ii) The Konkan coast experiences orographic rainfall.
 - (iii) Mangalore is not cold even in the month of December.

Month	Jan	Feb	March	April	May	June	July	Aug	Sept.	Oct.	Nov.	Dec.
Temperature °C	23.1	24.8	26.5	29.3	32	32.8	33.1	32.1	30.5	29.3	28.7	26.1
Rainfall cm.	15.3	10.1	0.3	0.1	1.3	4.5	6.1	10.2	10.5	20.1	16.8	19.0

- (d) Study the climatic data given below and answer the questions that follow :— [3]
- (i) Calculate the average rainfall experienced by the station.
 - (ii) Suggest a name of the station, giving a reason for your answer.
 - (iii) Does a station have a maritime or a continental climate ? Give a reason for your answer.
- Q.4)** (a) Explain the formation process of laterite soil. Why is wind erosion common in arid regions.[2]
- (b) Mention two features of black soil which makes it fertile. [2]
- (c) Give a reason for the following :—
- (i) Khaddar is more fertile than Bhangar soil. [3]
 - (ii) Reafforestation should be practised extensively.
 - (iii) Differenti regions of India are having different kinds of soil.

- (d) (i) Write any two similarity between red soil and laterite soil. [3]
(ii) Define pedogenesis.
- Q.5** (a) Which regions of India have desert vegetation ? How are they adapted to that climate. [2]
(b) Write two features of the forests found in the Sunderban delta. [2]
(c) Name the following :—
(i) Chir Pine belongs to this forests. [3]
(ii) The forests found in the Eastern side of the Western Ghats.
(iii) Land use systems involving trees with crops in the same land.
(iv) Give three reasons for the rapid depletion of forest resources in India. [3]
- Q.6** (a) Mention two advantages that surface wells have over inundation canals. [2]
(b) Give two reasons why irrigation is necessary in India. [2]
(c) Give a reason why :— [3]
(i) The Northern Plain of India is found suitable for canal irrigation.
(ii) Tank irrigation is an important method of irrigation in Karnataka.
(iii) Although expensive, yet sprinkler irrigation is gaining popularity in recent times.
- (d) (i) What is rain water harvesting ? [3]
(ii) Write any two main objectives of rain water harvesting.
- Q.7** (a) There is an urgent need for the use of non-conventional sources of energy, explain by writing two points. [2]
(b) Write one benefit of each of the following. [2]
(i) Hirakud Project.
(ii) Natural gas.
- (c) Give a reason why [3]
(i) Biogas is an ideal fuel.
(ii) Coal is called black soil.
(iii) Minerals in India are considered as an important natural resource.
- (d) (i) Mention any one off shore and one onshore oil field in India. [3]
(ii) Name any two raw materials used for nuclear energy.
(iii) Write two ways in which copper is used.
- Q.8** (a) Why is manufacturing sector in India considered as the backbone of Economic development? [2]

- (b) Mention any two problems faced by cotton textile mills. [2]
- (c) There is a shift a sugar industries from north India to peninsular India, Write your answer giving two reasons. Write one difference between basic and consumer Industries. [3]
- (d) (i) Bengaluru is well developed in silk industries, write two reasons for your answer. [3]
(ii) Write any one threat faced by silk mills in India.
- Q.9** (a) (i) In which state of India is a shore based steel plant located ?
(ii) From where does it get its supply of iron ore and natural gas. [2]
- (b) (i) What are Petrochemicals ? [2]
(ii) Why are traditional raw materials replaced by Petrochemicals ?
- (c) Give a reason for the following :— [3]
(i) Mini steel plants suit Indian Economy.
(ii) Most of the steel plants are found in the chhotanagpur plateau.
(iii) Bengaluru is known as silicon valley of India.
- (d) Name the following :— [3]
(i) Any one product of Rourkela Steel Plant.
(ii) Full form of SAIL.
(iii) Any one Petrochemical production unit.