

MAR THOMA RESIDENTIAL SCHOOL, TIRUVALLA
MODEL EXAMINATION - JANUARY 2019

STD X

GEOGRAPHY

H.C.G. - Paper - 2

(Two hours)

Answers to this Paper must be written on the answer sheet provided separately.

You will not be allowed to write during the first 15 minutes.

This time is to be spent in reading the question paper.

The time given at the head of this Paper is the time allowed for writing the answers.

Attempt seven questions in all.

Part I is compulsory. All questions from Part I are to be attempted.

A total of five questions are to be attempted from Part II.

The intended marks for questions or parts of questions are given in brackets [].

To be supplied with this Paper: Survey of India Map Sheet No. 45D/7
and 20 cm of twine.

Note:

- (i) In all Map Work, make wise use of arrows to avoid overcrowding of the map.
- (ii) The extract of Survey of India Map Sheet No. 45D/7 must not be taken out of the examination hall. It must be handed over to the Supervising Examiner on completion of the paper.
- (iii) The Map given at the end of this question paper must be detached, and after marking, must be fastened to your answer booklet.
- (iv) All sub-sections of the questions attempted must be answered in the correct serial order.
- (v) All working including rough work should be done on the same answer sheet which is used to answer the rest of the paper.

PART I (30 Marks)

Attempt all questions from this Part

Question 1

Study the extract of the Survey of India Map sheet No. 45D/7 and answer the following questions.

- a. Give the six figure grid reference of:
- Triangulated height 217
 - Lined well near Chekhla. [2]
- (b) (i) Name the left bank tributary of the main river.
- (ii) State the direction in which this left bank tributary is flowing. [2]
- (c) (i) Mention special feature associated with the streams in grid square 98 79
- (ii) Name the type of drainage pattern found in grid square 9382. [2]
- (d) Give the four figure grid reference of each of the following. [2]
- Open scrub
 - Bantawada
- (e) Name two relief features that can be seen in the grid square 9782 and 9574. [2]
- (f) Why do you find limited cultivation in the map extract. Give two reasons for your answer. [2]
- (g) What is the compass direction of Antroli(9576) and Chekhla(9281) from Sangla. [2]
- (h) What type of rainfall is experienced in the region shown in the map extract. Justify your answer giving one reason. [2]
- (i) Calculate the distance in kilometre along the cart track between Chitrasani(999747) and Pirojpura (978753) [2]
- (j) (i) What is the geographical name of the general pattern of settlement in the region shown on the map.
- (ii) Name any region shown on the map which is unstable for the cultivation of crops. [2]

Question 2

On the outline map of India provided:

- a) Draw and number and name the Tropic of Cancer. [1]
- (b) Mark and shade the Malwa Plateau [1]
- (c) Mark and name Allahabad. [1]
- (d) Mark and name Coromandel Coast . [1]
- (e) Print RS in bold letters over an area of red soil South of the Tropic of Cancer. [1]
- (f) Label the river Kaveri. [1]
- (g) Mark and name Karakoram Pass. [1]
- (h) Mark and name the Coalfield Jharia. [1]
- (i) Mark with a single arrow and name the winds that bring winter rains to north west India. [1]
- (j) Shade and name a sparsely populated State in North East India . [1]

PART II (50 Marks)

Attempt any five questions from this Part

Question 3

- (a) Why does the Coromandel Coast receives most of its rain during the winter season. [2]
- (b) Name two types of Cyclonic systems that affect India and two areas that receive rainfall from these system. [2]
- (c) Give a reason for each of the following:
 - (i) It is cooler on the mountain slopes than in the plains during summer .
 - (ii) Mumbai is warmer than Kanpur in December .
 - (iii) Mawsynram gets the heaviest rainfall in India. [3]
- (d) Study the climatic data given below and answer the questions that follow. [3]

| Month | Jan | Feb. | Mar. | Apr. | May | June | July | Aug. | Sept. | Oct. | Nov. | Dec |
|---------------------|------|------|------|------|------|------|------|------|-------|------|------|------|
| Temp ^o C | 24.5 | 25.7 | 27.7 | 20.4 | 30.0 | 30.5 | 31.0 | 30.2 | 29.8 | 28.0 | 25.9 | 24.7 |
| Rainfall cm | 4.6 | 1.8 | 1.3 | 1.8 | 3.8 | 4.5 | 8.7 | 11.3 | 11.9 | 30.6 | 35.0 | 13.9 |

- i) Name the driest month.
- ii) Calculate the annual rainfall experienced by the station.
- iii) What is the annual range of temperature?.

Question 4

- (a) What is conservation of soil? Name any two farming techniques which help in soil Conservation. [2]
- (b) State two differences between Black soil and Alluvial soil. [2]
- (c) Define i) Pedogenesis ii) Leaching iii) In Situ
- (d) Give reasons for the following:
- (i) Large tracts of Maharashtra is covered with black soil
 - (ii) Khader is more fertile than Bhnangar
 - (iii) Soil erosion is common in arid region

Question 5

- (a) Give two characteristics features of the Tropical Evergreen forests of Kerala that make it difficult to exploit them. [2]
- (b) Name the economically most important vegetation belt of India. Give reasons why they are important. [2]
- (c) Mention any three methods for the conservation and development of forests in India. [1]
- (d) Give one important use of each of the following: [1]
- (i) Sundari
 - (ii) Sandalwood
 - (iii) Rosewood

Question 6

- (a) What is the difference between surface water resources and ground water resources? Why are the latter very important for an Indian farmer? [2]
- (b) State two reasons why tank irrigation is popular in South India. [2]
- (c) Give one geographical reason for each of the following statements . [3]
- (i) Irrigation is necessary despite the monsoons.
 - (ii) The drip method of irrigation is the best among all modern methods of irrigation.
 - (iii) Inundation canals are being converted to perennial canals.
- (d) (i) What is rain water harvesting? [1]
- (ii) Mention two objectives of rain water harvesting. [2]

Question 7

- (a) Explain the need to develop the alternate source of energy. [2]
- (b) Name the four varieties of iron-ore. How is the low grade iron ore utilised? [2]
- (c) Give one geographical reason for each of the following: [3]
- (i) Anthracite is used for domestic purpose..
- (ii) Oil refineries are located close to the oilfield or near ports.
- (iii) Limestone is a vary valuable mineral. [3]
- (d) What are the multipurpose projects? Name any two multipurpose projects and the rivers on which they are constructed.

Question 8

- (a) How has poverty and fragmentation of land become problems of agricultural India? [2]
- (b) (i) Name two varieties of coffee.. [2]
- (ii) Why are the following trees commonly grown in a coffee estate?
- a) dalip b) orange
- (c) Give a geographical reason for each of the following : [3]
- (i) Cotton grows widely in Maharashtra.
- (ii) Clonal planting is the best method for tea propagation.
- (iii) Oilseeds are an important commercial crop grown in India
- (d) Explain briefly the following terms:
- (i) shifting cultivation.
- (ii) Ginning
- (iii) Broad casting [3]

Question 9

- (a) With reference to the iron and steel plant located at Jamshedpur, answer the following:
- (i) from where does the plant get its raw materials?
- (ii) Name the sea port that serves the region. [2]
- (b) Mention two problems faced by the cotton textile industry. [2]
- (c) Give reasons for the following. [3]
- (i) Bengaluru is called electronic capital of India.
- (ii) Products made from petrochemicals are growing in popularity.
- (iii) mini steel plants cause less pollution than integrated steel plants.
- (d) Name the by products of the sugarcane industry and give their industrial uses. [3]

Question 10

(a) Why is road transport in India considered more useful than rail transport?

Give any two reasons.

[2]

(b) Name any four factors that affect water transport.

[2]

(c) Give reasons for the following:

(i) The 'open sky policy' of the government has improved the popularity of air transport. Coastal shipping is one of the most important aspects of the Indian transport system.

(iii) Transport is the backbone of a country's economy.

[3]

d) What is the golden Quadrilateral? How does it help in the economic development of the country?

Question 11

(a) Give the difference between biodegradable and non-biodegradable waste. Give examples. [2]

(b) What is acid rain? Mention two of its effects.

[2]

(c) Give reasons for the following:

[3]

(i) Waste segregation is important.

(ii) Human dwellings should be far away from landfills.

(iii) The spread of diseases like malaria and dengue.

d) Explain the following terms:

i) Global warming

ii) Biomagnification

iii) Composting.

