

MAR THOMA RESIDENTIAL SCHOOL, TIRUVALLA  
FIRST MODEL EXAMINATION-DECEMBER 2019

**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/10  
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 : [2]
  - i. Triangulated height 217
  - ii. lined well near Chekhla.
- b) i. Name the left bank tributary of the main river. [2]
  - ii. State the direction in which this left bank tributary is flowing.
- c) i. Mention a special feature associated with the streams in grid square 9879. [2]
  - ii Name the types of drainage pattern found in grid square 9382.
- d) Give four grid reference of each of the following: [2]
  - i. Open scrub
  - ii. Bantawada
- e) Name two relief features that can be seen in 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?

h) What type of rainfall is experienced in the region shown in the map extract?

Justify your answer giving one reason.

i) Calculate the distance in kilometres along the cart track between Chitrasani(999747) and Pirojpora (978753).

j) i. What is the geographical name that you would give to the general pattern of settlement in the region shown on the map?

ii Name one region shown on the map which is unsuitable for the cultivation of crops.

### Question 2

On the outline map of India provided

a. Draw name and number the standard Meridian.

b. Label the river Yamuna.

c. Mark with arrows the direction of the North East Monsoon winds over the Bay of Bengal.

d. Shade and label the Khasi Hills.

e. Label the river Chambal.

f. Mark with a dot and name Kolkatta.

g. Shade a region with laterite soil in Eastern India.

h. Mark and name the Karakoram Pass.

i. Mark C on the coal fields in Jharia.

j. Shade and label Kanara Coast.

### Part II (50 marks)

Attempt any 5 questions from this part

### Question 3

a. What are 'Western disturbances'? Name two states that experiences these 'Western disturbances'.

b. State two important characteristics features of monsoon rainfall.

c. Give a reason for each of the following

i. The diurnal range of temperature during summer is greater at Bikaner (Raj) than at Panjim(Goa).

ii. Himalayas act as a 'Climate Divide'.

iii. Shillong gets less than 200cm of rainfall in the year, while Cherapunji receives more than 1250cms of rainfall.

d. Study the climate data below and answer the questions that following

Month	Jan	Feb	Mar	Apr	May	June	Jul	Aug	Sept	Oct	Nov
Temperature <sup>0</sup> C	21.5	25.1	27.5	28.7	30.1	30.1	33.7	30.5	30.1	25.5	24.6
Rainfall in cm	0.6	0.1	1.2	1.4	2.5	45.3	48.1	44.7	42.9	21.7	3.0

a. Which is the total rainfall during the monsoon season?

b. Calculate the mean annual temperature.

c. Does this ~~season~~ <sup>Station</sup> have a maritime or a continental climate? Give at least one reason



#### Question 4

- a. State the difference between Alluvial soil and Red soil.
- b. Define 'Leaching'? Name the soil formed by leaching and state two of its characteristics.
- c. Give a geography reason for
  - i. different regions in India having different kinds of soil.
  - ii. the conservation of soil as a natural resource.
  - iii. the soil of the Ganga Yamuna plain differ from that of Central MAharastra.
- d. Define the following:
  - i. Pedogenesis
  - ii. Khadar
  - iii. Insitu

#### Question 5

- a. Where are thorn and scrub forests found in India? Give reason why they are there.
- b. Name the economically most important vegetation belt of India. Mention any two characteristics of this vegetation.
- c. How do forests
  - i. have a favourable effect on the climate of the region.
  - ii. act as a flood control measure.
  - iii. provide fertility to the soil.
- d. Define the following:
  - i. Agroforestry
  - ii. Silviculture

#### Question 6

- a. Name two states in which tube wells are extremely used . Give a reason to explain its importance as a source of irrigation.
- b. Name two modern methods of irrigations .State one important reason for their growing popularity.
- c. Give a geographical reason for each of the following
  - i. Inundation canals are being converted to perennial canals.
  - ii. Irrigation is necessary despite the monsoons
  - iii. Traditional means of irrigation are still important in most parts of India.
- d.
  - i. Why is the world in danger in having a severe water shortage in the coming years? Give two reasons to support your answers.
  - ii. State one measure the Government should adopt to handle the present water crisis

#### Question 7

- a. Explain the need to develop alternative source of power.
- b. How is nuclear power obtained? Name any two nuclear power stations. Where are they located.
- c. State an important use of
  - i. coal
  - ii. Manganese
  - iii. Aluminum
- d.
  - i. Name the multipurpose project and the state in which it is located in respect of Mah
  - ii. Name the different types of iron-ore.
  - iii. What is meant by geothermal energy.

### Question 8

- a. Name a state where wheat is grown abundantly. State the climatic requirements for growing wheat.
- b. Why is agriculture important in India?
- c. Give a geographical reason for
  - i. Cotton is a labour intensive crop.
  - ii. Jute has to be retted.
  - iii. Silver oak and banana tree are grown on coffee plantation
- d.
  - i. What is meant by mixed farming?
  - ii. Explain the propagation of sugar cane by ratooning.
  - iii. Why do Indian farmers have small land holdings?

### Question 9

- a.
  - i. Name two iron and steel plants set up in India by two foreign collaborators.
  - ii. Name the region from where coal and iron ore are obtained by these two named by you.
- b. What is the significance of the Electronics industry in recent times?
- c. Give geographical reasons for the following:
  - i. Sericulture flourished in Karnataka.
  - ii. Cottage industry plays an important role in India's development.
  - iii. Sugar industries have flourished in Uttar Pradesh.
- d.
  - i. Mention two varieties of nonmulberry silk produced in India.
  - ii. Name two cities that have leading software companies.
  - iii. Name any two products of petrochemical industries.

### Question 10.

- a. Give reasons why the importance of inland waterways have declined.
  - b. What is the Golden Quadrilateral? Mention any two ways in which it will help development of the country
  - c. Give reasons for the following.
    - i. Air transport is still a popular means of transportation in India.
    - ii. Expressways have more advantages than National highways.
    - iii. Road transport is useful for the people of India
1. Name the following:
- i. A port on the east Coast of India.
  - ii. The river system for national waterway No. 1
  - iii. The terminus of the North South Corridor.

### Question 11

- a. Distinguish between biodegradable and non-biodegradable waste.
- b. What impact does the waste accumulation have on the following
  - i. Human beings
  - ii. Plants.
- c. Give reasons for the following:
  - i. Minamata Disease in Japan
  - ii. Chemical fertilizers must be replaced by organic manure.
  - iii. Incineration is one of the best methods of waste disposal.
- d.
  - i. How can waste be reused. Explain with the help of an example.
  - ii. State the main objective of the treatment of gaseous waste.
  - iii. What are the advantages of using mass transport system.



