

MAR THOMA RESIDENTIAL SCHOOL, TIRUVALLA  
FIRST TERM EXAMINATION -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/10 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 I**

Study the extract of the Survey of India Map sheet No. 45D/10 and answer the following questions:

- (a) Give the four-figure grid reference for a figure similar to the one given below. [2]  
*Identify the figure.*



- (b) How is the drainage pattern in grid square 1606 different from that in grid square 1608. [2]
- (c) Give the six figure grid reference for each of the following
- (i) Gautam Maharshi Mandir
  - (ii) 443

- (d) Name the most prominent settlement other than ABU. Give two reasons to support your answer. [2]
- (e)(i) What is the general slope of the land in the north-west corner of the map extract? [2]  
(ii) What is the compass direction of the Chandela (1803) from Hanumanji ka Mandir(2208). [2]
- (f) What do you understand by the following terms as used on the map extract? [2]  
(i) Causeway(1702) (ii) Falls 25m(2307) [2]
- (g)(i) If you were to cycle at 10km an hour how much time would it take to cover the north-south distance depicted on the map extract?  
(ii) Calculate the area enclosed by Eastings 19 to 22 and northings 04 to 09. [2]
- (h)(i) Identify one natural feature in grid square 1610. [2]  
(ii) Identify one man made feature in grid square 1903. [2]
- (i) Give two probable reasons, other than dry water features, to indicate that the region depicted on the map extract receives seasonal rainfall. [2]
- (j) Calculate in meters the difference in height between the highest point on the map and that contour height given in grid square 2402. [2]

### Question 2

On the outline map of India provided:

- (a) Mark and name the Karakoram Mountains. [1]  
(b) Label the river Godavari. [1]  
(c) Shade and label the Malabar Coast. [1]  
(d) Shade and label the Gangetic Plain. [1]  
(e) Mark and name the Aravalli Hills. [1]  
(f) Label the river Brahmaputra. [1]  
(g) Mark the Palk Strait. [1]  
(h) Mark and label the Gulf of Kutch. [1]  
(i) Shade and label the Thar Desert. [1]  
(j) Mark Mountain Kanchenjunga. [1]

### Part II(50 MARKS)

Answer any five questions

### Question 3

- a) Name two types of cyclonic systems that affect India and two areas that receive more rainfall from these systems. [2]  
b) Mention any two characteristics of the monsoons. [2]  
c) Give reasons for the following: [2]  
i) Jaipur has a higher annual range of temperature than Mumbai.  
ii) Thar is a desert area.

iii) Western Coastal Plains receive more rainfall than the Eastern Coastal Plains.

d) Study the climatic data given below and answer the questions that follow:-

Month	Jan	Feb	Mar	Apr	May	June	Jul	Aug	Sept	Oct	Nov	Dec
°C	23.1	24.8	26.5	29.3	32	32.8	33.1	32.1	30.5	29.3	28.7	26.1
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

[3]

- Calculate the annual rainfall experienced by the station.
- Suggest a name of this station, giving a reason for your answer.
- Name the season during which the rainfall is heavier.

#### Question 4

a) Name the soil which:-

[2]

i) Cracks when dry

ii) Is a result of leaching

iii) Is infertile and is used for building purpose.

iv) Can be classified into Khadar and Bhangar

b) Mention two characteristics of red soil. Name two crops, which grow well in red soil.

c) Write two similarities between laterite soil and red soil.

[2]

d) Give a geographical reason for each of the following:

[2]

i) Different regions in India have different kinds of soil

[2]

ii) Black soil is suitable for growing cotton.

e) Answer the following questions

i) How does overgrazing lead to soil erosion?

[2]

ii) Mention two steps which can be taken to prevent soil erosion caused by running water

#### Question 5

a) What are the main causes of shrinkage in forest area in India?

[2]

b) Give the characteristics of forests that flourish in the delta of the river Ganga.

[2]

c) Name the type of forests found in the Western part of the Western Ghats. Give two reasons.

[2]

Why these forest are so named?

d) Give reason for the following:

[2]

i) Forests are important natural resources.

ii) Monsoon deciduous forests are commercially more valuable than other types of forests

e) How do forests i) have a favourable effect on the climate of the region?

[2]

ii) act as a flood control measure.

### Question 6

- a) i) Name any two methods of water harvesting in India. [2]  
ii) Mention any two objectives of rainwater harvesting [2]
- b) Name any two states where perennial canals are widely used. Why are they found in these states. [2]
- c) State the reasons why irrigation is important in a country like India? [2]
- d) Give reason for the following: [2]
- i) Tank irrigation is an important method in Karnataka. [2]  
ii) The world is in danger of facing a severe water shortage in the coming future
- e) Name any two modern methods of irrigation. State the reasons for their growing popularity. [2]

### Question 7

- a) Mention two differences between shifting agriculture and plantation agriculture. [2]
- b) State the important aspect of Japanese method of rice cultivation. [2]
- c) What is ratooning? Give its advantages. [3]
- d) Give geographical reasons for the following: [3]
- i) Jute has to be retted. [3]  
ii) Tea is grown on hill slopes  
iii) Silver oak and banana trees are grown on coffee plantation.  
iv) pulses are good rotation crops.

### Question 8

- a) "Methane is an air pollutant that causes green house effect". Name two sources of this gas. [1]
- b) What do you mean by (i) Biomagnification (ii) Recycling (iii) Composting [3]
- c) Why is nuclear waste harmful? [1]
- d) What was the cause of the following [3]  
(i) Minamatta (ii) berylliosis (iii) asbestosis
- e) Open dumping is not considered as environmental friendly method. Why? [2]

INDIA

