

MAR THOMA RESIDENTIAL SCHOOL, TIRUVALLA
FIRST MODEL EXAMINATION-DECEMBER 2018

GEOGRAPHY

H.C.G. - Paper - 2

(Two hours)

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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 for:
- Surveyed tree 219 north-east of Pirojpura settlement
 - Triangulated height 364 in the Southern part of the map extract.
- (b) What is the direction of the flow of the Banas river? Give one evidence for your answer.
- (c) What do you understand by
- 12r in grid square 9878
 - 180 in grid square 9182
- (d) Calculate the area in kilometre of the region between 93 and 99 eastings and 76 and 81 northings.
- (e) i) What are the compass direction of the settlement at Juvol from the settlement at Arni
ii) Give the difference in altitude between the highest point on the map to the altitude of Moti Bhatamal.
- (f) Name the feature depicted by
- Blue line in BalaramNadi
 - Brown patch in 9678
- (g) Name the drainage pattern found in
- 9782
 - 9478
- (h) What do you infer about the climate of the region on the map. Give an evidence in support of your answer.
- (i) Name two human-made and two natural features in 9580.
- (j) What do the following denote?
- Black vertical line running along with 93 eastings.
 - RS near Chitrasani Settlement.

Question 2

On the outline map of India provided:

- a) Draw and number the standard Meridian of India. [1]
- (b) Mark and name the Vindya mountains. [1]
- (c) Mark and name Digboi [1]
- (d) Mark and name Palk Strait. [1]
- (e) Mark an area with laterite soil below the tropic of cancer. [1]
- (f) Mark and name the winds which bring rain to the lower Ganga Valley. [1]
- (g) Label the river Jhelum. [1]
- (h) Shade and write 'DP' over one area of Dense Population north of the Tropic of Cancer. [1]
- (i) Mark and name the Nathu-La Pass. [1]
- (j) Shade and name the gulf of Kachchh. [1]

PART II (50 Marks)

Attempt any five questions from this Part

Question 3

- (a) Explain the differences between the rainfalls that occur from June to September and that from December to February in North India. [2]
- (b) Give the reasons to justify that the Himalayas act as a Climatic Divide? [2]
- (c) Give a reason for each of the following:
 - (i) Rajasthan receives very little rainfall.
 - (ii) Kochi has a lesser annual range of temperature than Agra .
 - (iii) Rainfall in India is Orographic in nature. [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.	De
Temp ⁰ C	23.8	25.0	27.7	28.3	30.2	30.3	30.4	30.3	30.0	30.3	25.5	24
Rainfall cm	0	0	1.1	1.5	2.1	45.3	46.5	45.4	45.3	20.1	3.0	0.

- i) Calculate the mean annual temperature.
- ii) What is the total rainfall during the monsoon season.
- iii) Does the station have maritime or continental climate? Give a reason for your answer.

Question 4

- (a) Mention two differences in the alluvial soil on the northern plain and the alluvial soil on the Coastal plains of India. [2]
- (b) Name the soil found on the Summits of the Eastern Ghats and give its characteristics. [2]
- (c) Mention two ways by which soil can get nitrogen. [2]
- (d) How is red soil formed? Mention the reasons for low productivity of red soil. [2]
- (e) Give reasons for :-
- Overgrazing causes soil erosion.
 - Black soil is suitable for growing cotton

Question 5

- (a) Explain why Deciduous Monsoon Forests are found on the eastern part of South India.
- (b) Briefly give the characteristics of the forests that flourish in the deltas of the river Ganga.
- (c) Mention reasons why forests must be conserved.
- (d) To which type of forests do the following trees belong.
- Hintal and Sundari
 - Rosewood and Ebony
 - Teak and Sal
 - Deodar and Chirpine
- (e) Differentiate between Afforestation and Reforestation.

Question 6

- (a) State how the tube well irrigation scores over Canal irrigation in two different ways.
- (b) Give reasons why water scarcity occur in India.
- (c) State the significance of rainwater harvesting.
- (d) Name any two modern method of irrigation. State the important reasons for their growing popularity.
- (e) State the measures the Government should adopt to handle the present water crisis.

Question 7

- (a) Name the different varieties of Coal. Which Coal is used for domestic purpose and why?
- (b) Mention the uses of manganese and name the two main belts in India where manganese is found.
- (c) What are the raw materials needed for the generation of atomic energy. What are the disadvantages of using atomic energy.

- (d) Why is bauxite considered an important mineral? [2]
- (e) Name the most widely used non-conventional source of power. What are the advantages? [2]

Question 8

- (a) Which crop is the best example of plantation agriculture in India? What are its climate requirement? [2]
- (b) State two important characteristics of Indian agriculture. [2]
- (c) Explain briefly what is meant by the following terms: a) Ratooning b) Retting [2]
- (d) Distinguish between Intensive commercial farming and Extensive commercial farming. [2]
- (e) With reference to rice cultivation, answer the following :
- i) Name the leading states in the production of rice
- ii) Give two advantages of growing rice in nurseries. [2]

Question 9

- (a) Name the different varieties of silk. Which state is important for the silk industry? Why? [2]
- (b) What is the difference between a public sector industry and private sector industry? Give an example for each. [2]
- (c) Mention the problems faced by the sugar industries in India. [2]
- (d) i) Mention two reasons for the concentration of steel plants in the Chota Nagapur plateau region. [1]
- ii) Name any two iron and steel plants which started with foreign collaboration. [1]
- e) Name a manufacturing centre for each of the following industries. [2]
- i) Aircraft ii) heavy machines
- iii) railway coaches iv) petrochemicals

Question 10

- (a) Why has the importance of inland water ways declined? Give any two reasons. [2]
- (b) What is Pawan Hans? Name the areas it can be used. [2]
- (c) Give one disadvantage of air transport. Why is it still a popular means of transportation? [2]
- (d) Give reasons to explain the lack of rail transport in Northern Eastern India? [2]
- (e) i) One express way with its terminal cities. [1]
- ii) Name a main port on the West Coast and its satellite port. [1]

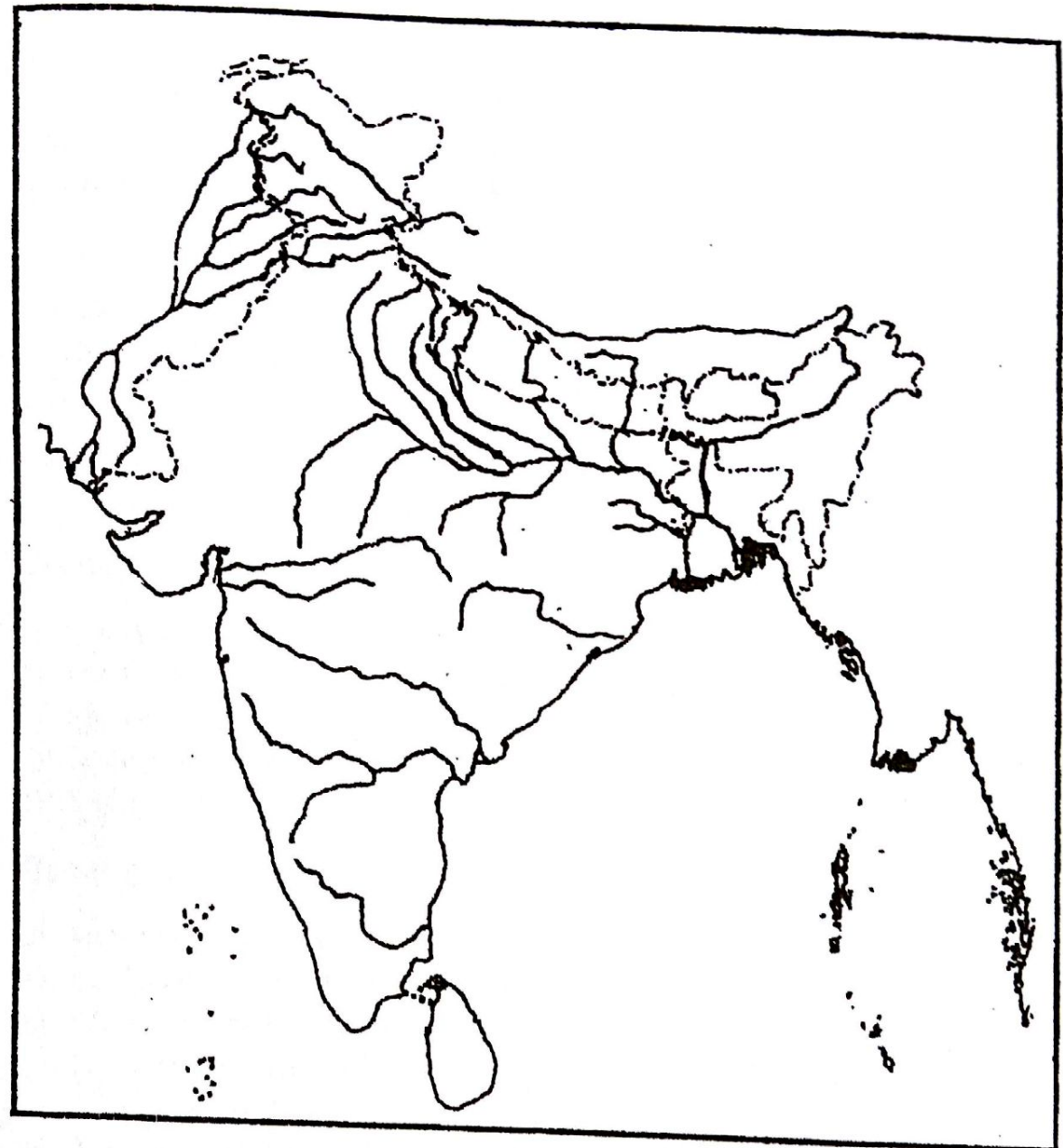
Question 11

- (a) What is ozone? How is it depleted?
- (b) How does water pollution cause large scale death of aquatic life.
- (c) What are the three R's of Water management? Give an example for each.
- d) Define the following:
 - i) Eutrophication
 - ii) Green house gases.
 - iii) Incineration.

Index No..... UID.....

(This map, if used, must be fastened with all other answers)

Map of India for Question 2.



ONLY FOR THE EXAMINER									
a	b	c	d	e	f	g	h	i	j

