

Geography (STD X)

H.C.G. Paper – 2

(Two hours)

Answers to this Paper must be written on the paper 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 Sheen No. Sheet 45 D/10
(1994) and 20cm of twine

Note:

(i) In all Map Work, by a wise use of arrows to indicate positions of countries, cities and other insertions that you make, you will be able to avoid overcrowding parts of the map.

(ii) The Map given at the end of this question paper must be fastened with your answer booklet.

(iii) All sub-sections of each question must be answered in the correct order.

(iv) All working including rough work should be done on the same answer sheet as the rest of the answer.

PART I (30Marks)

Attempt all questions from this Part

Question 1

Study the extract of the survey of India map sheet No. 45 D/10 (1994) and answer the following questions.

(a) Give the four figure grid reference for:

(i) Settlement of Bamba

(ii) DB to the east of Devanagri Nadi

(b) Give the six figure grid reference for:

(i) Milestone 20 along the metalled road

(ii) Temple to the North of Tokra

(c) What is the area of the region in kilometers East of Easting 18 and South of Northing 17? [2]

(d) What is the distance in meters along the metalled road from Causeway in grid 1922? [2]

(21)

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- (e) What do the following indicate? [3]
- (i) 280 in 1718
 - (ii) 3r in 2117
 - (iii) Brackish in 1621
- (f) Which part of the grid 2215 has a gentle slope and which has a steep slope? Justify your answer. [2]
- (g) What are the two sources of irrigation in the area to the North of the Sipu Nadi? [2]
- (h) How is the drainage in 2219 different from the drainage in 2113? [2]
- (i) Name the settlement and its type seen near the reservoir. [2]
- (j) List any two types of vegetation seen in the region. [1]

Question 2

On the outline map of India provided mark and label the following:

- (a) The Standard Meridian. [1]
- (b) Wular Lake. [1]
- (c) Western Ghats. [1]
- (d) River Indus. [1]
- (e) Coalfield in India. [1]
- (f) Bengaluru. [1]
- (g) Palk Strait. [1]
- (h) Region with Alluvial soil. [1]
- (i) Sparsely populated region. [1]
- (j) River Godavari. [1]

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PART II (50 Marks)

Attempt any five questions in this part.

Question 3

- (a) Explain the role of Himalayas in determining the climate of India during the Cold weather season. [2]
- (b) Name the following:
- (i) A hot local wind that blows in the summer in the northern plains. [1]
 - (ii) Winds that are responsible for heavy rainfall in Mawsynram. [1]
- (c) Give Reasons:
- (i) Though the sun is still overhead, it is not so hot during the rainy season. [1]
 - (ii) North East Monsoons bring almost no rain to most of India. [2]

22

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

Month	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
Temp °C	23.5	25.2	26.9	29.7	32.4	33.2	33.3	32.5	31	29.7	29.1	26.5
Rainfall cm	15	10.2	0.5	0.1	1.5	4.6	6.0	10.5	10.8	20.6	16.8	19.2

- (i) Calculate the annual range of temperature. [1]
 (ii) Calculate the total annual rainfall during the Retreating Monsoon season. [1]
 (iii) On which coast does the station lie? Justify your answer. [1]

Question 4

- (a) Name the soil which - [2]
 i) Covers almost all of West Bengal.
 ii) Highland areas of peninsular plateau.
 (b) List two characteristics of red soil. [2]
 (c) Why is there a need for Soil Conservation? [3]
 (d) Explain how the following measures help in the prevention of soil erosion. [3]
 (i) Strip Cropping
 (ii) Plugging Gullies

Question 5

- (a) What are the productive functions of forests? [2]
 (b) List two characteristics of Mangrove forests. [2]
 (c) Name the following - [3]
 (i) Two trees found in the Desert forests.
 (ii) Two regions where Montane forests are seen.
 (iii) Two uses of Ber.
 (d) Give three features of Social Forestry. [3]

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Question 6

- (a) Well irrigation is not suitable for every region in the country. Justify. [2]
 (b) Name four states where tank irrigation is widely used. [2]
 (c) List three reasons justifying the declining popularity of conventional means of irrigation. [3]
 (d) Give one advantage and two disadvantages of spray irrigation. [3]

Question 7

- (a) List two uses of Iron ore. [2]
 (b) Name the coalfields that account for most of India's coal reserves. List two states where this coal is found. [2]
 (c) (i) What is an advantage of harnessing tidal energy? [1]
 (ii) What are two prospective sites for exploitation of tidal energy in India? [2]

- (d) (i) Name two types of natural gas. [1]
- (ii) List two disadvantages of Natural gas. [2]

Question 8

- (a) List and explain two economic factors for the problems in the Indian agricultural. [2]
- (b) Differentiate between Upland rice and Lowland rice. [2]
- (c) What are the advantages of Ratooning? [3]
- (d) Explain: [3]
 - (i) Green revolution
 - (ii) Two methods of tea cultivation.

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 Mumbai - 400 101
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Question 9

- (a) Name the types of industries on the basis of ownership. [2]
- (b) List two advantages of Petrochemical products. [2]
- (c) From where does Rourkela steel plant obtain the following: [3]
 - (i) Iron ore
 - (ii) Manganese
 - (iii) Coal
- (d) Name the four varieties of silk found in India. Name two states where the most famous silk in India is found. [3]

Question 10

- (a) List three advantages of waterways over roadways. [3]
- (b) Explain the three types of railway lines based on the width of the track. [3]
- (c) What is PPHL? What is the primary objective of its establishment? [2]
- (d) What are the special features of the Mumbai – Pune expressway? [2]

Question 11

- (a) What steps should an individual take to reduce environmental pollution? [2]
- (b) (i) What is composting? [1]
 - ii) State two advantages of composting. [2]
- (c) Name two bacterial water borne diseases. [1]
- (d) What are the effects of the following on the human body? [2]
 - i) Lead
 - ii) Mercury
- (e) What is acid rain? [2]

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24