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## 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.

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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 [ ].

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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.

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This Paper consists of 8 printed pages and 1 outline map.

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Turn over

**PART I (30 Marks)**

*Attempt all questions from this Part*

**Question 1**

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

- (a) Give the *six figure grid reference* for: [2]  
(i) The highest point in this map extract.  
(ii) Surveyed tree north of Rampura Khera.
- (b) On which bank of Sukli Nadi lies: [2]  
(i) Butri  
(ii) Padrugarh
- (c) Differentiate between the drainage pattern shown in grid square: [2]  
(i) 0704  
(ii) 0705
- (d) The region in this map extract receives seasonal rainfall. Give *two* reasons for your answer. [2]
- (e) Calculate the distance in km between settlement Bhatana and Makawal along the cart track. [2]
- (f) State the Compass direction of the following: [2]  
(i) Dattani from Marol.  
(ii) Dhavli from Makawal.
- (g) (i) Mention a social activity of people living in Marol. [2]  
(ii) What is the main occupation of the people living in this region?
- (h) What do you understand by: [2]  
(i) The black broken line in 0807  
(ii) The vertical black line close to Easting 10
- (i) What is the main source of water supply to Bhatana? Give a reason for your answer [2]
- (j) (i) Name one natural feature in the grid square 0905. [2]  
(ii) Identify one man made feature in the grid square 1003.

**Question 2**

On the outline map of India provided:

- (a) Draw and name the *Tropic of Cancer*. [1]
- (b) Label the river *Godavari*. [1]
- (c) Mark and name the *Garo Hills*. [1]
- (d) Mark C on the coal fields in *Jharia*. [1]
- (e) Mark with an arrow and name *the NE monsoon over the Bay of Bengal*. [1]
- (f) Shade and name the *Gulf of Kutch*. [1]
- (g) Shade and name the *coastal plain* that receives rainfall in *October-November*. [1]
- (h) Mark with a dot and name *Delhi*. [1]
- (i) Shade a region with *Black Cotton Soil*. [1]
- (j) Use an arrow to point at a *densely populated state in South India*. [1]

**PART II (50 Marks)**

Attempt **any five** questions from **this Part**

**Question 3**

- (a) Mention the four seasons that prevail in India stating the months for each. [2]
- (b) State the *agricultural benefits* derived from: [2]
  - (i) The Westerly Depressions in Punjab.
  - (ii) The Kalbaisakhi in Assam.
- (c) Give a *reason* for each of the following: [3]
  - (i) Kolkata receives heavier rain than Lucknow.
  - (ii) The Summer Monsoon winds blows over the Arabian Sea from the SouthWest.
  - (iii) Thar is a desert.

(d) Study the climatic data given below and answer the questions that follow: [3]

Month	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
Temp. °C	12.0	25.5	26.3	27.1	30.0	36.2	36.0	35.9	30.3	28.4	21.0	16.6
Rainfall cm	1.5	0.1	0.0	1.4	1.1	21.0	25.3	27.2	24.0	9.4	1.5	0.4

- (i) What is the annual range temperature of the station?
- (ii) What is the total annual rainfall experienced by the station?
- (iii) Why would it be correct to presume that the station lies in the interior and not on the coast?

#### Question 4

- (a) Mention two differences between Alluvial Soil and Black Cotton Soil. [2]
- (b) Name an area in India in which each of the following processes take place: [2]
  - (i) Sheet erosion
  - (ii) Gully erosion
- (c) What is soil conservation? State a method of soil conservation in the: [3]
  - (i) Arid and Semi-Arid region.
  - (ii) river valleys prone to flood.
- (d) Name the soil which: [3]
  - (i) is good for cultivation of sugarcane.
  - (ii) is acidic in nature.
  - (iii) occurs *exsitu*.

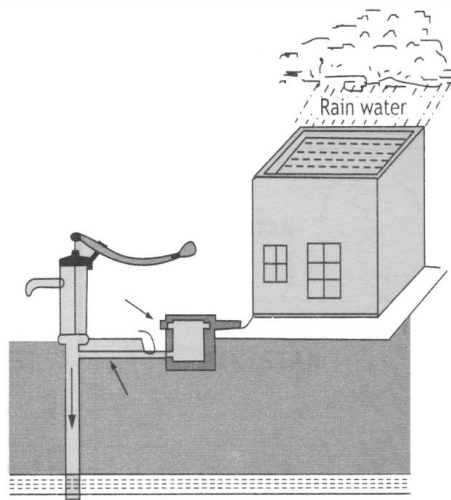
#### Question 5

- (a) How do trees in the Tropical desert forests adapt themselves to the dry climate? [2]
- (b) Name the tree as per its characteristics given below: [2]
  - (i) The wood is hard and suitable for ship building.
  - (ii) The stilt roots are underwater during high tide.
- (c) Explain why the forest cover in India is shrinking? [3]

- (d) Name the natural vegetation found in the following regions: [3]
- (i) The western slopes of the Western Ghats.
  - (ii) The Nilgiris.
  - (iii) Western Rajasthan.

### Question 6

- (a) Give a reason for the significance of irrigation in: [2]
- (i) Punjab.
  - (ii) Rajasthan.
- (b) Name a state where: [2]
- (i) Tube wells are common.
  - (ii) Tank irrigation is popular.
- (c) Give one Geographical reason for each of the following: [3]
- (i) Sprinkler irrigation is practised in arid and semi-arid regions.
  - (ii) A tube well should be installed in a fertile and productive region.
  - (iii) Canal irrigation is more suitable in the Northern Plains.
- (d) Study the diagram below and answer the questions that follow: [3]



- (i) Name the activity shown in the diagram.
- (ii) Give two objectives of the activity named in (d) (i).

**Question 7**

- (a) Give the names of four important types of iron ore found in India. [2]
- (b) Name the following: [2]
- (i) An offshore oil field in the Gulf of Cambay.
  - (ii) An oil refinery in Bihar.
- (c) (i) Name the state that produces the largest amount of limestone. [3]
- (ii) State two uses of limestone.
- (d) State an important industrial use of: [3]
- (i) Manganese
  - (ii) Coal
  - (iii) Aluminium

**Question 8**

- (a) What is Mixed farming? Mention *any one* benefit of Mixed farming. [2]
- (b) Give the Geographical requirements for the cultivation of Sugarcane. [2]
- (c) Explain the following terms and name the crop with which each is associated: [3]
- (i) Retting
  - (ii) Ratooning
  - (iii) Ginning
- (d) Give geographical reasons for the following: [3]
- (i) Regular pruning is essential for tea bushes.
  - (ii) Coffee beans are roasted.
  - (iii) Millets are known as dry crops.

**Question 9**

- (a) Differentiate between Mineral-based Industry and Agro-based industry [2]  
giving one example for each.
- (b) 'Though Uttar Pradesh has the largest number of sugar mills yet Maharashtra is the largest producer of sugar.' Give any two reasons to justify the statement. [2]
- (c) Give the *geographic term* for each of the following: [3]
- (i) Non-mulberry silk produced in Madhya Pradesh.
  - (ii) Rejected cane after crushing.
  - (iii) The rearing of silk worms to obtain silk.
- (d) With reference to the cotton textile industry answer the following questions: [3]
- (i) Give two reasons why Mumbai is an important cotton textile industry.
  - (ii) Mention two more important centres of cotton textile industry in India.

**Question 10**

- (a) 'The Iron and Steel industry constitutes the backbone of modern industrial economy.' Give two reasons to justify the statement. [2]
- (b) (i) Name an Iron and Steel Industry set up in Orissa with the help of a famous German firm. [2]
- (ii) From where does the industry named in b (i) get its iron ore and manganese?
- (c) Name a manufacturing centre for each of the following industries: [3]
- (i) Aircraft
  - (ii) HMT
  - (iii) Railway coaches
- (d) Name two products each of the following industries: [3]
- (i) petrochemical industry.
  - (ii) heavy engineering industry.
  - (iii) electronic industry.

**Question 11**

- (a) Mention two reasons why more people use railways rather than airways. [2]
- (b) Why is inland waterways declining in its importance? Give two reasons for your answer. [2]
- (c) What do you mean by the following: [3]
- (i) Sewage.
  - (ii) Eutrophication.
  - (iii) Recycling.
- (d) 'Methane is an air pollutant that causes Green House effect.' Name three sources of this gas. [3]



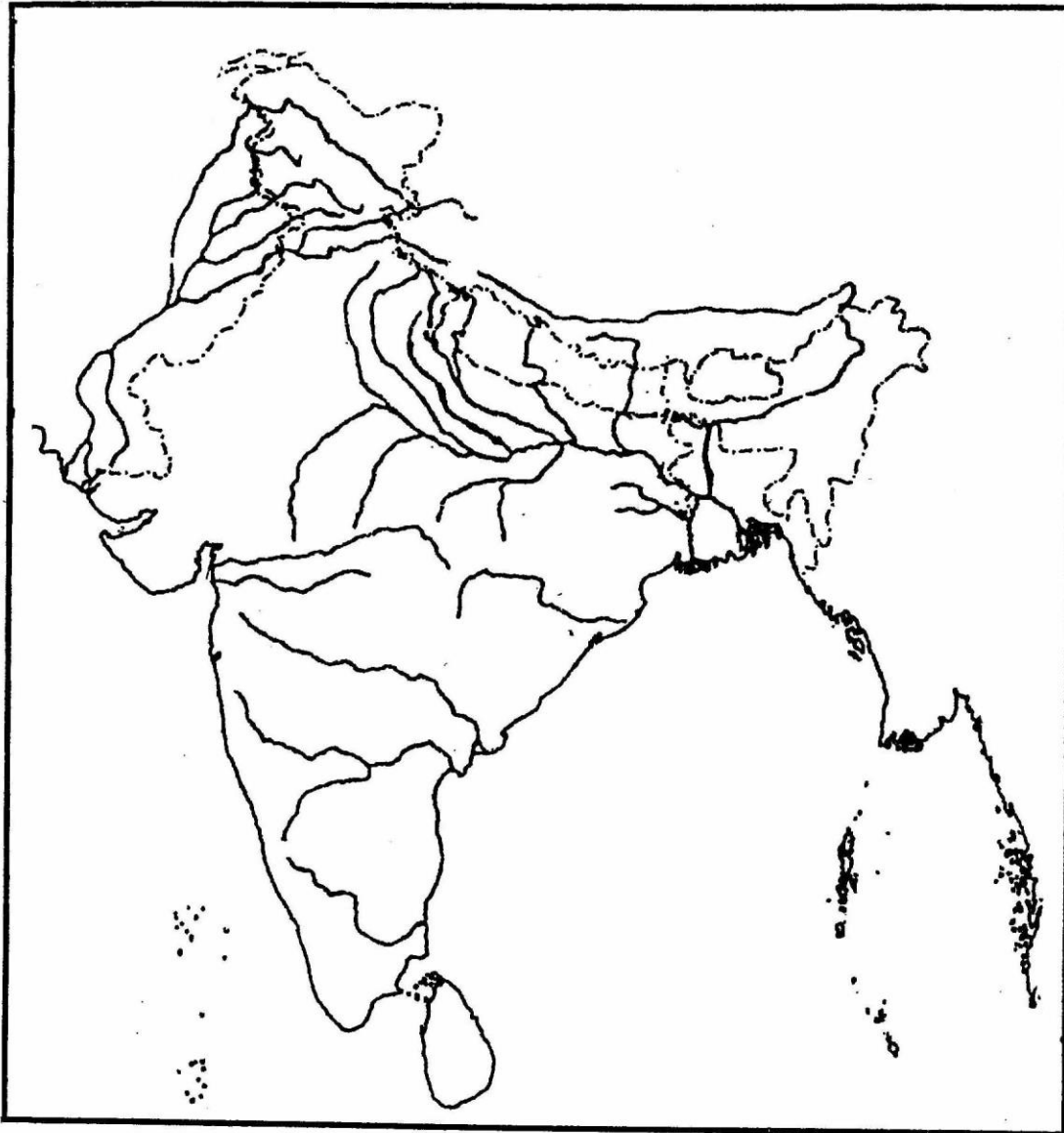
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Name..... Index No..... UID.....

(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