

# GEOGRAPHY

## PAPER 1

### (THEORY)

(Maximum Marks: 70)

(Time allowed: Three hours)

(Candidates are allowed additional 15 minutes for **only** reading the paper.  
They must **NOT** start writing during this time.)

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Answer **Sections A and B** from **Part I** which are compulsory.  
Answer any **four** questions from **Part II**.

Sketch maps and diagrams should be drawn wherever they serve to illustrate your answer.  
The intended marks for questions or parts of questions are given in brackets [ ].

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### PART I (30 Marks)

Answer all questions.

#### SECTION A

#### Question 1

[10 × 2]

- (i) Name *one* country each which forms a frontier with India in the:
    - (a) North
    - (b) West
  - (ii) Name *any two* standard geological eras, along with their duration.
  - (iii) Mention *any two* differences between the *Western Ghats* and the *Eastern Ghats*.
  - (iv) State *two* objectives of social forestry.
  - (v) Define the following terms:
    - (a) Ribbon settlement
    - (b) Metropolis
  - (vi) What is meant by *market gardening*? State *any one* importance of market gardening.
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This Paper consists of 6 printed pages and a map.

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Turn over

- (vii) Mention *any two* factors which influence natural vegetation of a place.
- (viii) What is *eco-tourism*? How is it promoted in India?
- (ix) Mention the locational factors which favour the growth of cement industry in India.
- (x) Name *any two* states which serve as hinterland for the Haldia port.

## SECTION B

### Question 2

[10]

On the outline map of India provided:

- (a) Mark and name the central longitude of India.
- (b) Mark and name the highest peak of Himalayas in India.
- (c) Mark and name the longest river of Peninsular India.
- (d) Shade and label the Meghalaya Plateau.
- (e) Mark and label Chilika lake.
- (f) Draw an arrow to show the direction of easterly jet streams over India.
- (g) Mark with a dot the capital city of Karnataka.
- (h) Shade and name the state with the largest production of groundnut.
- (i) Mark with a dot and name the centre for Garden Reach Workshop.
- (j) Mark with a dot and name the centre for Maruti automobile industry.

**Note:** All the map work, including legend (Index) should be done on the map sheet only.

### PART II (40 Marks)

*Answer any four questions.*

### Question 3

- (a) Name *any two* physical divisions of India and state *two* characteristic features of each. [4]
- (b) Explain how the following factors affect India's climate: [2]
  - (i) Southern Oscillation
  - (ii) Northern mountain ranges

- (c) Study the climatic data provided in the table below for a city A in India and answer the questions that follow: [2]

| City | T/R | J  | F  | M  | A  | M   | J   | J   | A   | S   | O   | N  | D  |
|------|-----|----|----|----|----|-----|-----|-----|-----|-----|-----|----|----|
| A    | T   | 20 | 23 | 26 | 32 | 35  | 39  | 34  | 28  | 25  | 28  | 24 | 21 |
|      | R   | 14 | 23 | 27 | 42 | 121 | 231 | 300 | 306 | 289 | 160 | 34 | 5  |

T = Mean monthly temperature in degree Celsius ( $^{\circ}\text{C}$ ).

R = Average monthly rainfall in millimetres (mm).

- (i) Mention *two* main features of the climate experienced by station A.
- (ii) Calculate the annual rainfall for station A.
- (d) Name the major region for the following: [2]
- (i) Tropical evergreen forests
- (ii) Arid forests
- (iii) Mountain forests
- (iv) Tropical monsoonal forests

#### Question 4

- (a) Explain *any three* factors that influence the spatial distribution of population in India. [3]
- (b) Define the following terms: [2]
- (i) Stepwise migration
- (ii) Urban agglomeration
- (c) (i) What is meant by *pull migration* and *push migration*? [3]
- (ii) What are the *two* major differences *between rural* settlements and *urban settlements*?

(d) Study the given data and answer the following questions:

[2]

| S.No. | Name of the State / Union Territory | Total Population |              |
|-------|-------------------------------------|------------------|--------------|
|       |                                     | 2001             | 2011         |
| 1     | N.C.T. of Delhi                     | 1,38,50,507      | 1,67,53,235  |
| 2     | Uttar Pradesh                       | 16,61,97,921     | 19,95,81,477 |
| 3     | Bihar                               | 8,29,98,509      | 10,38,04,637 |
| 4     | West Bengal                         | 8,01,76,197      | 9,13,47,736  |

- Identify the state with the highest growth rate of population.
- Calculate the absolute growth of population for the state mentioned by you in (d)(i) above.

#### Question 5

- Mention *any two* reasons why sufficient land is not available for cultivation in India. [2]
- Give a reason for small size of cultivable land holdings in India. [3]
  - Suggest *two* methods for increasing the size of land holdings.
- What is meant by *tank irrigation*? [3]
  - State *one* advantage each of the following means of irrigation:
    - Tube wells
    - Tanks
- Explain the following: [2]
  - Watershed management
  - Rain water harvesting

#### Question 6

- Briefly discuss *any two* problems of Indian agriculture and suggest measures to overcome the same. [2]
- State the geographical conditions favourable for the growth of: [3]
  - Rice
  - Tea
- Discuss *any two* factors which influence growth of fishing industry in Kerala. [2]

- (d) Name the major state in India and its one centre for the production of the following: [3]
- (i) Mica
  - (ii) Petroleum

**Question 7**

- (a) (i) How are roads classified in India? [3]
- (ii) Mention the different types of roads classified in India.
- (b) (i) In which two fields is remote sensing data important? [2]
- (ii) Name *two* satellite systems of India.
- (c) Mention *any three* geographical conditions that favour rail transport in the Northern Plains of India. [3]
- (d) What are the *two* main items of export from the following sea ports: [2]
- (i) Mumbai Port
  - (ii) Vishakhapatnam Port

**Question 8**

- (a) Explain *any three* factors that have led to the growth of industrialisation in India. [3]
- (b) (i) Why is cement industry known as a basic industry? [3]
- (ii) Mention *two* major centres of cement industry in India.
- (c) Discuss *any two* factors which have influenced Ahmedabad to develop as the largest centre of cotton textile industry in Gujarat. [2]
- (d) Name the following: [2]
- (i) Aluminium plant at Renukoot.
  - (ii) Iron and Steel plant at Paradweep.
  - (iii) HAL centre in south India.
  - (iv) First IPCL centre for Petrochemicals.

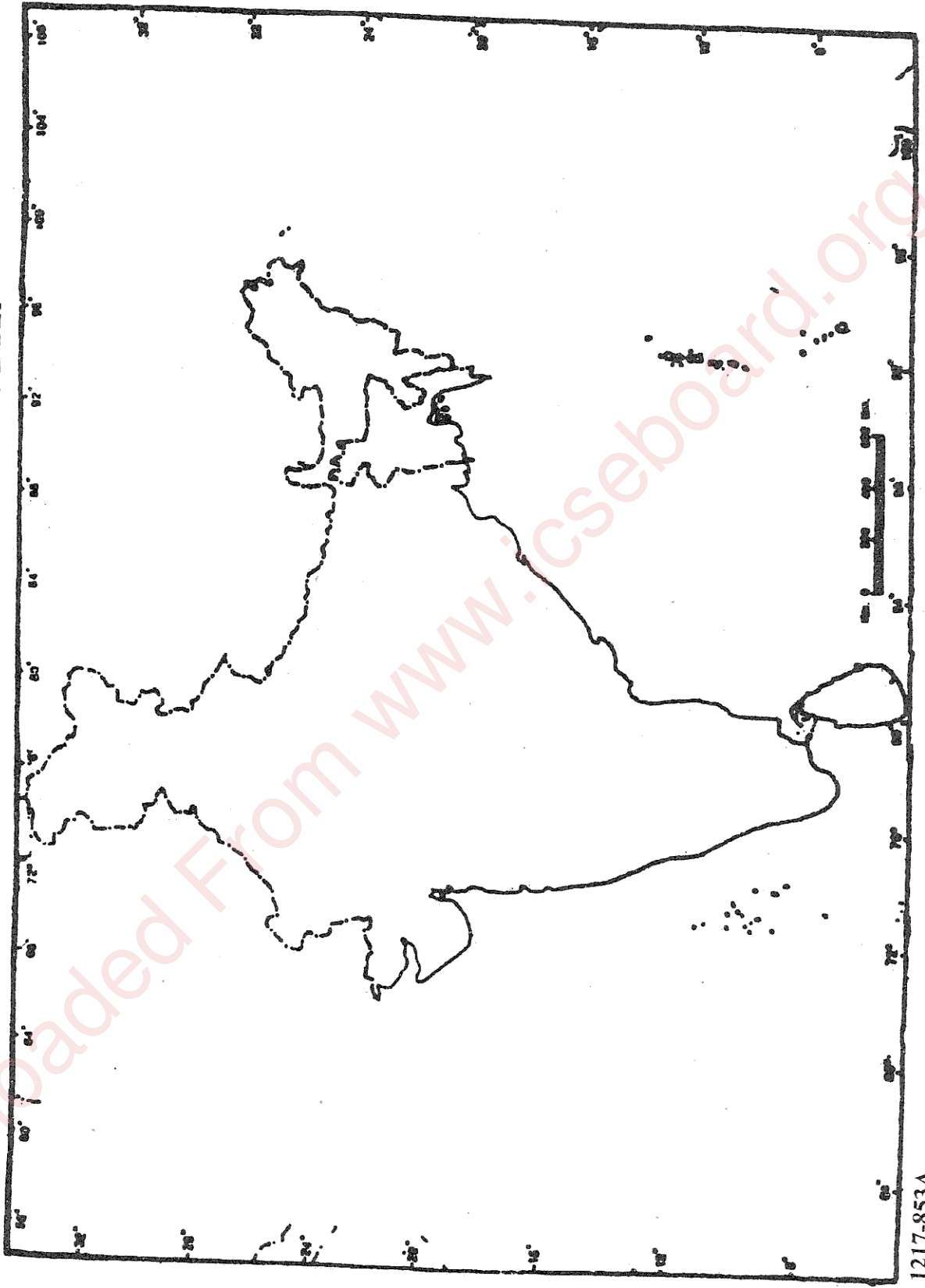
**Question 9**

- (a) (i) What is a *planning region*? [5]
- (ii) Mention *two* characteristics of a planning region.
- (iii) Distinguish between *multi-level planning* and *single level planning*.
- (b) Mention *any three* factors which have led to the emergence of Bengaluru as the *electronic capital* of India. [3]
- (c) Name the mineral for which Chhattisgarh is the only producing state in India. [1]
- (d) Name the city that is located 105 km upstream from Haldia. [1]

NAME..... INDEX NO..... UNIQUE IDENTIFICATION NO.....

(This map must be fastened with all other answers)

MAP FOR Q. No.2      MAP OF INDIA



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