



STD: 10

Reading Time 15 Mins.

Marks: 80

Writing Time 2 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.

Section I is compulsory. Attempt any five questions from Section II.

The intended marks for questions or parts of questions are given in brackets [ ].

SECTION I (30 Marks)

Attempt all questions from this section

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Question 1

Study the extract of the survey of India Map Sheet number 45D/10 and answer the following questions:

- (a) How do the drainage pattern shown in the grid square 0704 and 0705 differ from each other? [2]
- (b) Give the six figure grid reference for: [2]
  - i) Spot height .365
  - ii) Surveyed tree north of Rampura Khera.
- (c) On which bank of Sukli Nadi lies [2]
  - i) Butri.
  - ii) Padrugarh.
- (d) Give two reasons to support the fact that this receives seasonal fall. [2]
- (e) What is the main source of water supply to Bhatana? Give [2]
- (f) i) Mention the social activity of people living in [2]
- ii) What is the main occupation of the people living in this region? [2]
- (g) Calculate the distance in km between settlements Bhatana and Makawal along the cart track. [2]
- (h) Interpret the following: [2]
  - i) The vertical black line
  - ii) The black broken line
- (i) What is the direction of the following? [2]
  - i) Dattari from
  - ii) Dhavli from
- (j) Identify one natural feature in grid square 05 and one man-made feature in the grid square 1003. [2]

Question

On the outline map provided mark and label the following:

- (a) Shade and name the state with highest density of population. [1]
- (b) Mark with a red dot and name Allahabad. [1]
- (c) Mark and name Mumbai. [1]
- (d) Shade a region with black cotton soil. [1]
- (e) Mark and name Lake Chilka. [1]
- (f) Mark and name the winds which bring rain to Mumbai in July and August. [1]
- (g) Shade and name the Gulf of Khambhat. [1]
- (h) Draw, name and number the Tropic of Cancer. [1]
- (i) Label the River Chambal. [1]
- (j) Mark with a bold line and name the Western Ghats. [1]



## SECTION II (50 Marks)

Attempt any five questions from this section

## Question 3

- (a) Name the following: [2]
- The winds that bring heavy rain to Chirrapunji.
  - A region which receives rainfall both in summer and winter.
- (b) 'Rainfall in India is Orographic in nature'. Give an example with reference to the distribution of rainfall and effect of relief on its distribution. [2]
- (c) Give geographical reasons: [3]
- Arabian Sea branch of the South West Monsoon does not shed any moisture over Western Rajasthan.
  - The northern plains of India do not freeze in winter.
  - The mango showers are beneficial local winds.
- (d) Study the climatic data of station X given below and answer the questions that follow: [3]

Month	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Temperature	23.1	24.8	26.5	29.3	32.0	32.8	32.1	30.5	29.3	28.7	26.1	26.1
Rainfall cm	15.3	10.1	0.3	0.1	1.3	5.5	6.1	10.2	10.5	20.1	16.8	19.0

- Calculate the annual rainfall experienced at the station.
- Suggest a name of the region, give reasons for your answer.
- Name the season during which the rainfall is the least.

## Question 4

- (a) Mention two characteristics of Black soil. Is this soil agriculturally important? [2]
- (b) Which soil is suitable for cotton cultivation in Karnataka? Give one drawback of this soil. [2]
- (c) Give geographical reasons: [3]
- Laterite soil is not suitable for cultivation.
  - Different regions in India have different kinds of soil.
  - Large parts of Maharashtra are covered with Black Soil.
- (d) Mention any three improved techniques of agriculture to conserve soil. [3]

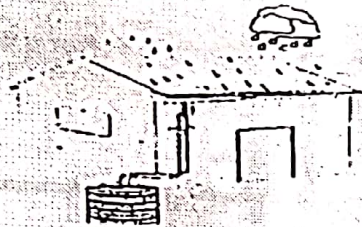
## Question 5

- (a)
  - Name the vegetation found in the Central and Eastern Rajasthan. [1]
  - Give one important use of Sandalwood and Palas trees. [1]
- (b) Green corridors are being established around industrial areas. Give reason. [2]
- (c)
  - Name the forests which grow on the windward slope of western ghats. [1]
  - Why do such forests grow in this region? [1]
  - Name any one variety of tree found in these forests. [1]
- (d) The National Policy of 1988 emphasised on three points. Name them. [3]



**Question 6**

- (a) Name the two important canals of West Bengal. [2]  
 (b) Mention any two ways in which water from a surface well can be drawn. [2]  
 (c) Give geographical reasons for the following: [3]  
 i) Tank irrigation has reached its highest perfection in the south.  
 ii) Spray irrigation is an expensive method of irrigation.  
 iii) Conservation of water is the need of the hour.  
 (d) Study the diagram below and answer the questions that follows: [3]



- i) Name the activity shown in the diagram.  
 ii) Give two objectives of the activity name you.

**Question 7**

- (a) Which of the two Gondwana coal or Tertiary coal is better and why? [2]  
 (b) i) Name a centre of Nuclear power generation in India. [1]  
 ii) Name two raw materials used for generation of nuclear power. [1]  
 (c) Name the mineral used in the manufacture of: [3]  
 i) Cement.  
 ii) Aluminium.  
 iii) Synthetics.  
 (d) Name the non-conventional energy associated with the following: [3]  
 i) This energy was originally used for running mills.  
 ii) After production of this energy, the waste is used as fertiliser.  
 iii) The condition of this energy is maximum when it is full moon.

**Question 8**

- (a) How is broadcasting method different from the dibbling method? [2]  
 (b) Why is the sett method of cultivation of sugarcane preferred to the ratoon method? [2]  
 (c) i) Name the largest producer of wheat in India [1]  
 ii) Name two geographical conditions for the growth of wheat in India. [2]  
 (d) Mention the differences in the geographical conditions and cultivation of rice and wheat. [3]

**Question 9**

- (a) Mention: [3]  
 i) Two advantages that the Vishakhapatnam steel plant has over other steel plants.  
 ii) Two reasons why petrochemical products are replacing natural products.  
 iii) Two advantages of setting up mini steel plants.  
 (b) Mention any two problems faced by the following industries: [2]  
 i) Sugar  
 ii) Jute.  
 (c) Where do the Tata Iron and Steel Company get the following from: [3]  
 i) Iron ore  
 ii) Power supply  
 iii) Water supply  
 (d) Distinguish between: Public Sector industry and Co-operative industry. [2]



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GEOGRAPHY

**Question 10**

- (a) Name the ports: [2]
- i) Gateway to Eastern India
  - ii) Port on the mouth of the Zauri Estuary.
  - iii) Deepest landlocked protected port.
  - iv) Oldest artificial harbour on the East Coast.
- (b) When and why was the Border Road Organisation set up? [2]
- (c) i) Distinguish between Inland waterways and Oceanic waterways. [2]  
ii) Why is NW1 easily navigable? [2]
- (d) The Konkan Railway line is called as an engineering marvel of Indian Railway. [2]  
Explain.

**Question 11**

- (a) i) What is a sanitary landfill? [1]  
ii) Name the main nodal agency for generating environmental consciousness. [1]  
iii) Why should the use of CFCs be reduced? [1]
- (b) Write any two effects of waste accumulation in plants. [2]
- (c) Explain the three ill-effects of open dumping of waste. [3]
- (d) How do UV rays affect the marine ecosystem? [2]