

VIBGYOR HIGH

Second Preliminary Examination

2018-2019

GEOGRAPHY

Grade : X

Max. Marks : 80

Date : 14/01/2019

Time Allowed : 2 hours

INSTRUCTIONS:

- 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 Sheet No. 45 D/10 and 20cm of twine.
 - In all Map work, by a wise use of arrows to indicate positions of cities and other insertions that you make, you will be able to avoid overcrowding parts of the map.
 - The Map given at the end of this question paper must be fastened with your answer booklet.
 - All sub-sections of each question must be answered in the correct order.

Part I (30 MARKS)

Attempt all questions from this part.

Question 1

Study the extract of Survey of India Map Sheet No. 45D/10 (1999) and answer the following questions. [2]

- a) Give the six figure grid reference of: [2]
- 348
 - Temple northeast of settlement Bhatana [2]
- b) Write the direction of the following: [2]
- Monthly fair site from open mixed jungle
 - Survey tree 254 from ·365 [2]
- c) Identify the black and red squares in grid 0204. [2]
- d) Calculate the distance in metres along the cart track from causeway in grid 0907 to settlement Makawal. [2]
- e) Give reason for the following: [2]
- Presence of an island in Sipu Nadi.
 - Disappearing stream in grid 0807 [2]
- f) Bring out the difference between 3r in grid 0209 and 0409. [2]
- g) Identify the drainage pattern [2]
- In grid 0704.
 - In grid 0705.
- h) What does the black dotted line in the southern part of your toposheet indicate? [2]
- i) Give examples of each of the following from the survey sheet: [2]
- Two sources of irrigation
 - Two occupations of the people
- j) Bajra grows well in the area shown on the map extract. Justify. [2]

Question 2

Mark and label the following on the given outline map of India:

- Latitude of summer solstice. ✓ [1]
- Tributary of river Krishna. ✓ [1]
- A densely populated State in South. ✓ [1]
- A region in north where alluvial soil is found extensively. ✓ [1]
- Mark and name the winds that bring rainfall in winters to the Coromandel Coast. ✓ [1]
- Plateau rich in minerals. ✓ [1]

- g) Kanara Coast. [1]
h) Mountain range known for 'Doons'. [1]
i) Capital of Telangana. [1]
j) Nathu-La Pass. [1]

Part II (50- MARKS)

Attempt any five questions from this part.

Question 3

- a) With reference to 'Western Disturbances' answer the following questions: [2]
i) Name the season when it is prevalent in India.
ii) State one of its climatic characteristic.
- b) Explain the following terms: [2]
i) October Heat
ii) Cherry Blossoms
- c) Give a reason for the following: [3]
i) Barmer in Rajasthan may record a temperature of 48°C in June while it reaches hardly 22°C at Pahalgam in Jammu and Kashmir.
ii) The South West Monsoon starts retreating from Northern India in early October.
iii) Pune has a higher range of temperature than Mumbai.
- d) Study the climatic data provided below and answer the questions that follow: [3]

Station	Month	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
A	Temp (°C)	23.8	25	27.7	28.3	30.2	30.3	30.4	30.3	30	30.3	25.5	24.2
	Rainfall (Cm)	-	1.1	1.5	2.1	2.1	45.3	46.5	45.4	43.3	20.7	3.0	0.1

- i) Calculate the mean annual temperature.
ii) What is the total rainfall during the monsoon season?
iii) Identify the station and state its location.

Question 4

- a) With reference to the Black Soil, justify the following statements. [2]
i) Black Soil does not get leached.
ii) Black Soil has self ploughing ability.
- b) What type of soil erosion is more common in Western Rajasthan and why? [2]

- c) Give a geographical reason for the following: [3]
- Soils form the backbone of our economy.
 - Sandy soil cannot produce enough food crops.
 - Different regions in India have different kinds of soil.
- d) Name the following: [3]
- Type of erosion seen in Chambal Valley region.
 - Type of agriculture that causes soil erosion.
 - Step like structure created along the hill slopes for cultivation.

Question 5

- a) Which vegetation in India is commercially the most important? State the required range of rainfall for this vegetation. [2]
- b) Name two programmes launched by the government to generate public awareness about the forests. [2]
- c) Study the picture below and answer the questions that follow: [3]



- Name the type of vegetation seen in the given picture.
 - Write any two economical values of the trees found in this forest.
 - When can these roots be seen on the surface?
- d) Name the following: [3]
- Vegetation found at the altitude of 2500 m - 3000 m.
 - Festival of planting trees during the monsoon season.
 - Tree used for rearing shellac worms.

Question 6

- a) Uncertainty of rainfall necessitates irrigation in India. Justify with an example. [2]
- b) Why is it difficult to develop mass irrigation facilities in peninsular India? [2]
- c) Give geographical reason: [3]
- i) Ground around canal irrigation becomes unproductive.
 - ii) Sprinkler irrigation is best suited for semi-arid and arid regions.
 - iii) Zaid is an exclusively irrigated crop.
- d) With reference to conservation of water answer the following questions: [3]
- i) Write two objectives of rain water harvesting.
 - ii) Name the watershed development project started by Central government stating its aim.
 - iii) List any two groundwater recharging methods.

Question 7

- a) Name the following: [2]
- i) India is the second largest producer of this mineral
 - ii) Source of energy which is found in small quantity in Jammu and Kashmir.
 - iii) Any two petroleum reserves in Gujarat.
 - iv) Usable gas produced by fermentation of biodegradable waste.
- b) 'Multipurpose projects are vital for the development of India.' Justify [2]
- c) With reference to petroleum answer the following questions: [3]
- i) Name any two by-products of petroleum.
 - ii) How is petroleum harmful to marine animals?
 - iii) Name a refinery in:
 - a) Uttar Pradesh
 - b) Kerala
- d) i) Name the variety of iron ore found in Odisha and Goa. [3]
- ii) Give reason for the following statements:
- a) Manganese is important raw material of Iron and Steel Industry.
 - b) Bauxite is widely used in electrical equipment industry.

Question 8

- a) Why is the agricultural yield in India low in comparison to the universal production? [2]
- b) Explain the following terms: [2]
- i) Organic farming
 - ii) Crop Rotation

- c) State the climatic requirements for the following crops: [3]
- Wheat
 - Coffee
 - Jute
- d) State three important aspects of the Japanese method of rice cultivation. [3]

Question 9

- a) The raw materials and power resources play an important role in determining the location of an industry. Justify giving suitable examples. [2]
- b) What do the following abbreviations stand for: [2]
- PCL
 - ISRO
- c) i) Name the industry which is located in Ganga-Yamuna doab and Terai regions of north India. Why is the named industry experiencing stagnation and decline?
- ii) State one reason to explain the importance of chemical industry with regard to:
- Agriculture
 - Public Health.
- iii) Why is the petrochemical industry gaining importance? State any two examples. [3]
- d) Identify the following iron and steel plants: [3]
- Iron and steel plant setup in Jharkhand in 1907.
 - The integrated steel plant with an advantage of coastal location.
 - Iron and steel plant gets its iron ore from Keonjhar and Sundergarh districts.

Question 10

- a) Mention any two unique features of Konkan Railways. [2]
- b) What is 'Pawan Hans'? State its one major objective. [2]
- c) Give a reason for the following: [3]
- The government of India is forced to adopt the policy of gauge conversion.
 - Uttar Pradesh has the highest length of inland waterways in India.
 - Air transport is only used for high value goods and passenger services.
- d) i) State two important differences between an expressway and a highway. [3]
- ii) Name the first six lane expressway of India.

AMBIKA BOOK DEPOT
Shop No. 1, Rangoli, Vasant Utsav,
Thakur Village, Kandivali (E),
Mumbai - 400 101,
Mob. 9821263050,

V I B G Y O R
H I G H

Question 11

- a) What is the direct impact of waste accumulation in the environment on animals and birds? [2]
- b) Name the following: [2]
- i) Concentration of the toxic substances in the food chain.
 - ii) Cause of Minamata disease.
- c) i) Name any two monuments affected by acid rain. [3]
- ii) What is the need to protect the ozone layer?
 - iii) What are the causes of depletion of the ozone layer?
- d) Give a reason for the following: [3]
- i) Trees should be planted.
 - ii) Organic manure should be used.
 - iii) Mass transport system should be used.
