

ST. GREGORIOS HIGH SCHOOL

PRELIMINARY EXAMINATION – STD X

GEOGRAPHY

11TH JANUARY, 2019 TIME: 2 HOURS

MARKS: 80

Attempt Seven Questions in all.

Part I is COMPULSORY. A total of FIVE Questions are to be attempted from PART II.

PART I (30 marks)

Attempt ALL QUESTIONS from this Part

Question.1

Study the extract of the Survey of India Map Sheet No. 45 D/7 and answer the following questions (Eastings 91-00, Northings 73-82):

- a. Give the four figure grid reference of:- (2)
- i. A Spur.
 - ii. A Railway Station.
- b. How many tracks are found on this map extract? Draw it. (2)
- c. What evidence from the map shows that the region is semi-arid in nature? (2)
- d. Give a reason for the presence of the following: (2)
- i. A number of perennial wells along the banks of BalaramNadi.
 - ii. Agricultural land on the Island in Banas River.
- e. What is the R.F. of the map? What advantage does this scale have? (2)
- f. What is the difference between 4r in grid square 9973 and 12r in grid square 9673? (2)
- g. What is the compass direction of Settlement Juvol (9282) from Settlement Hebatpur (9873)? (1)
- h. Give the general direction of the main tributary of Banas River. Along which bank does it join Banas River? (2)
- i. Calculate the distance in kilometres and metres along the cart track between Rampura (9580) and Antroli (9576). (2)
- j. State the pattern of: (2)
- i. Human settlement in grid square 9282.
 - ii. Drainage in grid square 9375.
- k. State the length of the given map in kilometres. (1)

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Question 2

On the outline map of India provided:

(10)

- Mark and name Lake Wular.
- Shade and name a region covered by alluvial soil in North East India.
- Mark and name River Betwa.
- Mark and name India's largest coalfield.
- Mark and name the Aravallis.
- Mark and name the winds that bring rain to the Middle Gangetic Plains.
- Mark and shade the Kanara Coast.
- Mark and name the exporting the tea exporting port in Kerala.
- Mark and shade the Gulf of Kutch.
- Shade and label the state that has the least population in India.

PART II (50 marks)

Attempt ANY FIVE questions from this Part

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Question 3

- 'Despite the broad unity of the Monsoon type of climate, seasonal variations in climate occur in different regions of the country.' Support this statement. (2)
- Distinguish between Bay Cyclones and the Western Disturbances. (2)
- Give a geographical reason for each of the following: (3)
 - The Northern Plains aren't a vast Winter Snowland in December.
 - The advance of the Monsoons is much faster in the Bay of Bengal than in the Arabian Sea
 - The Cold Season is much awaited in the Deccan.
- State the climatic data given below and answer the questions that:

Station		Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sep.	Oct.	Nov.	Dec.
A	Temp. (°C)	14.4	16.7	23.3	30.0	33.3	33.3	30.0	29.4	28.9	25.6	19.4	15.6
	Rainfall (cms.)	2.5	1.5	1.3	1.0	1.8	7.4	19.3	17.8	11.9	1.3	0.2	1
B	Temp. (°C)	24.5	25.7	27.7	30.4	33.0	32.5	31.0	30.2	29.8	28.0	25.9	24.7
	Rainfall (cms.)	4.6	1.3	1.3	1.8	3.8	4.5	8.7	11.3	11.9	30.6	35.0	13.9

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- i. Calculate the annual rainfall experienced by Station A. (1)
- ii. Which Station lies closer to the Coast? Show your working. (1)
- iii. Name the Winds that bring rainfall to Station B. Give a reason. (1)

Question 4

- a. i. Identify the soil which is formed due to the prolonged weathering of crystalline rocks and name its two categories. (1)
- ii. List the characteristics which prove disadvantageous to the crops that grow in this soil. (1)
- b. Explain why Alluvial Soil is best known as 'Riverine Soil'. (2)
- c. i. How has Black Soil got its name? (1)
- ii. Why is it not subjected to leaching? (1)
- iii. Name a cash crop that thrives in it and a leading state connected to it. (1)
- d. Name an area subjected to the following type of erosion and give a counter action for it: (3)
 - i. Gully Erosion.
 - ii. Stream Bank Erosion.

Question 5

- a. How do forests act as a 'protector' and 'guardian' of our planet? (2)
- b. Give two points of distinction between the Montane Forests of North India and South India. (2)
- c. i. State the characteristics of the vegetation found in the Tropical Desert Forests. (2)
- ii. Give an example of the fruit tree found there and state its uses. (1)
- d. Give geographical reasons for the following: (3)
 1. Despite the plentiful rainfall and sunlight the Tropical Evergreen Forest receives, its floor is devoid of grass.
 2. Social Forestry aims at achieving an all-round rural development.
 3. Teak wood is in great demand.

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Question 6

- a. Explain how the type of soil in an area influences the irrigational facilities found there. (2)
- b. How can the 'large size' of a tank prove to be disadvantageous? (2)
- c. Give geographical reasons for the following: (3)
- Well irrigation is the most widespread form of irrigation in India today.
 - Canal irrigation has proved to be priceless to some states.
 - Drip Irrigation is usually used to irrigate fruits and vegetables.
- d. With reference to conservation of water, answer the following questions:-
- How does Watershed Management maintain the water supply for years to come? (2)
 - Name the water storing mechanism used in Ladakh and on the Deccan Plateau. (1)

Question 7

- a. i. Name the leading iron ore mine in India and mention the state it lies in. (1)
- ii. What variety of iron is found in the above mine? List one property of it. (1)
- b. Explain why Gondwana coal is preferred to Tertiary coal. (2)
- c. With reference to Non-Conventional sources of energy, answer the following questions:
- What source of energy is independent of weather and season? Where is it tapped in India? (1)
 - In your opinion, which is the ^{best} source of energy for rural India? Support your answer. (1)
 - Identify the cleanest form of renewable energy. Name the device used to harness it. (1)
- d. Give geographical reasons for the following: (3)
- Hydroelectric power is the most widely used form of renewable energy.
 - Natural gas is now a preferred fuel option.
 - Aluminium is indispensable to the transport sector.

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Question 8

- a. How far do you agree with the fact that agriculture plays a significant role in the Indian economy? (2)
- b. Give 2 points of distinction between Plantation Farming and Intensive Farming. (2)
- c. With reference to food crops, answer the following questions:
- i. Why does rice grow best in deltas and in flood plains? (1)
 - iii. Account for the fact that no other crop in India has registered such a sharp increase in its production like wheat. (1)
 - iii. What makes India the largest producer and consumer of pulses? (1)
- d. i. Give the climatic factors that favour the cultivation of tea in Assam. (2)
- ii. Identify the crop that is associated with the process of 'Retting' and 'Ratooning' (1)

Question 9

- a. With reference to the Rourkela Iron and Steel plant:- (2)
- i. Name its foreign collaborator.
 - ii. From where does it obtain iron ore and manganese?
- b. Give two reasons why the sugar industry is facing great losses today. (2)
- c. i. Why is it in the government's best interest to promote the Handloom and Khadi Industry? (2)
- ii. What is the main difference between a Tertiary Industry and an Ancillary Industry? (1)
- d. Give geographical reasons for the following: (3)
1. Mumbai can no more be called the 'Cottonpolis' of India.
 2. Petrochemical products have done their fair share in causing pollution.
 3. The electronics industry has greatly contributed to India's Space program.

Question 10

- a. Name the body which is primarily incharge of the following: (2)
- i. The Freeways.
 - ii. The Waterways.
 - iii. The roads along the North-Eastern boundary of India.
 - iv. The district roads.

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Std. X

Sub : Geography

- b. Why are Express Highways on the increase? (2)
- c. i. Identify the cheapest as well as the most expensive means of transportation in India. (1)
- ii. State the importance of having multiple means of transportation in a country like ours. (2)
- d. Account for the following:-
- i. The presence of a dense network of railways along Coastal India. (2)
- ii. The need for an increased helicopter service in India today. (1)

Question 11

- a. Why does the handling of solid waste pose a serious pollution problem/threat to us? (2)
- b. Mention the effects of Global Warming that you have personally experienced. As a result of it, what changes have you brought about in your lifestyle? (2)
- c. Explain the following terms:
- i. Eutrophication. (2)
- ii. Sanitary Landfills. (1)
- d. What are the 3 Rs of Waste Management? Support each one giving a relevant example. (3)