

Greenlawns School, Worli
Preliminary Examination 2025-2026
Geography

Std: X

Marks: 80

Date:

Time: 2 hours

Answer to this paper must be written on answer sheet provided separately.

You will not be allowed to write during the first 15 minutes.

This time is to be spent reading the question paper.

The time given at the head of this paper is the time allowed for writing the answers.

Attempt eight questions in all.

Part I is compulsory. All questions from Part I are to be attempted.

A total of five questions is to be attempted from Part II

Note:

1. In all Map Work, make a wise use of arrows to avoid overcrowding of the map.
2. The Survey map given to you must not be taken out of the examination hall. It must be handed over to the examiner on completion of the paper.
3. The Map given at the end of this question paper must be detached and after marking, must be fastened to your answer booklet.
4. **All sub-questions of each question attempted must be answered in the correct serial order.**
5. All working including rough work should be done on the same answer sheet which is used to answer the rest of the paper.

PART I (30 marks)

Attempt all questions from this part

Q.1. Study the extract of the Survey of India Map Sheet No. G43S10 (2025) and answer the following questions.

- i. a) Identify the conventional symbol found at the six figure reference of 641349 [2]
b) Identify the drainage pattern in the Grid square 6736.
- ii. a) Calculate the shortest distance in km. from Pamera to Gulabganj. [2]
b) In which direction will Sachin be cycling if he is going from Udwariya to Sirori along the metalled road.
- iii. a) Write whether the conventional symbol marked as a black line in Grid square 7033 is man-made or natural. [2]
b) A resident of Pithapura settlement (Grid square 6633) requires medical aid. Which settlement will he visit?
- iv. a) How do the local people benefit from the aqueduct seen in this region? [2]
b) Explain why Reserved Forest are significant from the point of view of the environment.

v.

- a) Rajiv is travelling from Mohabbatgarh to Sigarli Khera (Grid square 6528). [2]
Which two means of transport would he use to reach his destination?
- b) Differentiate between the power line in Grid square 6128 and the one in Grid square 6735.

Q.2. On the outline map of India provided to you mark and name the following.

- i. Shade and label an area with red soil in Rajasthan. [1]
- ii. Mark with a dot and name the capital of Tamil Nadu. [1]
- iii. Shade and label the Deccan plateau of India. [1]
- iv. Mark and label the Gulf of Mannar. [1]
- v. Mark with arrows and name the wind which brings rainfall to the Coromandel Coast. [1]
- vi. Shade and label a densely populated area in southern India. [1]
- vii. Mark and label the block mountains between Narmada and Tapi. [1]
- viii. Mark and name the river known as 'Sorrow of Bihar' [1]
- ix. Mark and label the Tropic of Cancer. [1]
- x. Mark and label the Konkan Coast. [1]

Q.3. Choose the correct answers to the questions from the given options. [10]

(Do not copy the question, write the correct answers only.)

- i. The bulk of the rainfall in the Coromandel Coast is due to:
 - a. lack of humidity
 - b. cyclones and depressions
 - c. excess evaporation due to high temperature
 - d. absence of moderating influence of the sea
- ii. Sedimentary soil found in India is _____
 - a. Riverine soil
 - b. Alluvial soil
 - c. Laterite soil
 - d. Ex-situ soil
- iii. Find the option most similar to:
Sloping branches: Montane forest
 - a. Pneumatophores: Littoral forests
 - b. Mahagony : Tropical Desert region
 - c. Rhizophora: Boat making
 - d. Aerial roots: Tropical Deciduous forest
- iv. Which of the following can be used as a catchment area?
 - a. Forested area with tall trees
 - b. Swimming pools, tanks and ponds
 - c. Sea shores, beaches and lagoons
 - d. Sloping sheds, building courtyards and lawns

v. Arrange the following in ascending order according to their iron content

- Haematite, Magnetite, Limonite, Siderite
- Haematite, Limonite, Siderite, Magnetite
- Magnetite, Haematite, Limonite, Siderite
- Limonite, Magnetite, Haematite, Siderite

vi. Assertion (A): Mixed farming ensures a steady income to the farmer.
Reasoning (R): If the crops fail the farmer can make money from cattle rearing

- Both A and R are true and R is the correct explanation of A.
- Both A and R are true but R does not explain A.
- A is true but R is False
- A is false but R is true

vii. Which crop is associated with Blending?

- Sugarcane
- Cotton
- Tea
- Wheat

viii. Which steel plant amongst the following has NOT been set up with foreign aid

- Bhilai
- Rourkela
- Tata Iron and Steel Company
- None of the above

ix. If a trader wants to send heavy machinery from Maharashtra to Uttar Pradesh which mode of transport will he use and why?

- Air transport as it is fastest
- Water transport as it is cheapest
- Road transport as it gives door to door service
- Rail transport as it can carry bulky goods.

x. Which of the following methods of disposal is best applicable for the waste depicted in the picture below:



- Organic farming
- Incineration
- Recycling
- Open dumping

PART II (50 marks)
Attempt any five questions from this part

Q.4.

i. "India experiences several significant local winds which provide several agricultural and economic benefits". [2]

Explain the above statement with the help of two suitable examples.

ii. How does altitude affect the climate in the following areas? [2]

a) Ladakh
b) Gujarat

iii. Give geographical reasons for the following. [3]

a) India is expected to experience a harsh winter in 2025.
b) The Rann of Kutch has a very high diurnal range of temperature.
c) The North-East Trade winds do not bring rainfall to the Deccan Peninsula.

iv. Study the climatic data given below and answer the following questions. [3]

Station	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
A (temp ⁰ C)	10.5	15.2	20.7	24.3	27.6	25.5	25.1	24.7	21.3	20.4	16.7	12.1
A (Rain/cm)	5.3	4.2	1.4	0.4	0.2	20.2	28.5	26.1	10.9	8.6	4.7	4.3

a) Calculate the average temperature of the above station for the winter season.
b) Which is the hottest month?
c) Name the wind that brings rainfall to this station in summer.

Q.5. (i) Ramapelli, a farmer in Kerala, cultivates coffee in his plantation.

The soil is acidic and deficient in nitrogen. It is red in colour due to the presence of iron oxide. [2]

a) Which type of soil does Rampelli have in his field?
b) Why is this soil acidic in nature?

(ii) With reference to soil erosion in India answer the following questions. [2]

a) How do bad farming techniques affect soil erosion?
b) Name any two farming techniques which can avert soil erosion.

iii. With reference to Black soil, answer the following. [3]

a) Why is it so named?
b) State any two crops that flourish in this soil.
c) Name any two areas in India where it is found.

iv. Give a reason for the following statements. [3]

a) Laterite soil requires manuring for growing sugarcane.
b) The entire Northern plains are made up of alluvial soil.
c) Red soil sometimes looks yellow.

Q.6.

- i. Ketan is on a safari in Rajasthan where he came across thorny scrubs. [2]
 - a) Which natural vegetation belt did he come across?
 - b) Name two important trees found here.
- ii) a) What is the role played by agro-forestry in maintaining an ecological balance along with economical goals? [2]
 - b) How does growing in pure stands affect deciduous forests?
- iii. "Conservation of forests is of vital importance for the survival and prosperity of human kind". Justify this statement with any three valid and distinct points. [3]
- iv. a) Name the method developed by a Japanese botanist to create dense forests in a short period. [3]
 - b) Which type of trees have adapted themselves to survive in drought like conditions?
 - c) What is the term given to the process of planting trees on barren land.?

Q.7.

- i. Irrigation requirement for different crops depends on the soil where it is to be cultivated. Explain. [2]
- ii. Why are tube wells a more suitable method of irrigation in Rajasthan? [2]
- iii. (a) Name a state in India where tank irrigation is prominently practiced. [3]
 - (b) Give two geographical conditions that favour tank irrigation in this state.
- iv. Study the picture given below and answer the questions that follow: [3]



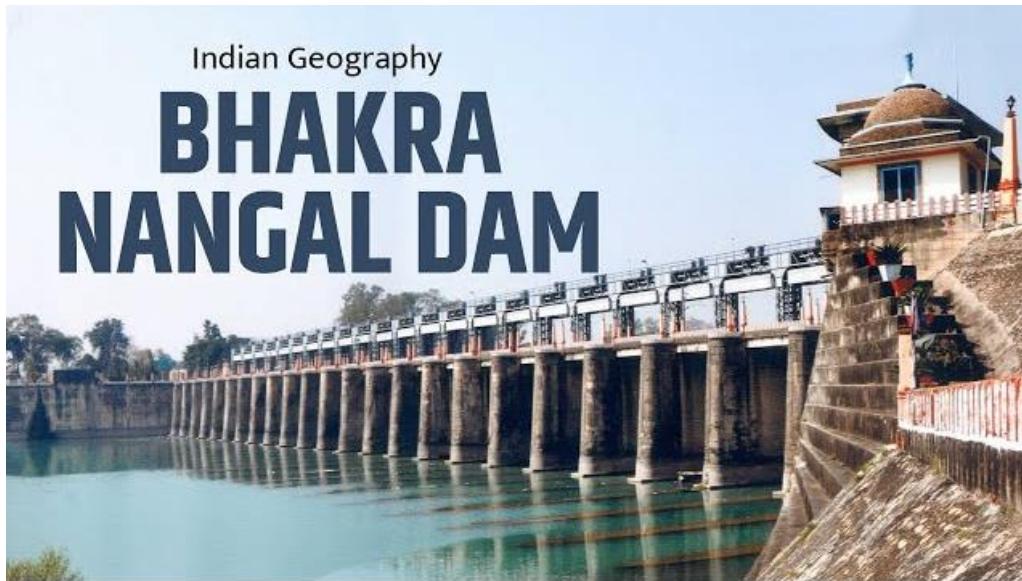
- a) Identify the irrigation technique in the picture.
- b) Why is this an expensive method?
- c) Why is this technique environment friendly?

Q.8.

i. In her Budget speech, Finance Minister Nirmala Sitharaman announced the creation of a new 'Nuclear Energy Mission for Viksit Bharat' and pushed for amending laws that are limiting this growth. She said that the development of at least 100 GW of nuclear energy by 2047 is essential for energy transition efforts. (<https://www.ndtv.com/india-news>)

- How will the above 'Nuclear Energy Mission' transform India?
- Name the two type of nuclear reactors.

ii. With reference to the picture given below, answer the following: [2]

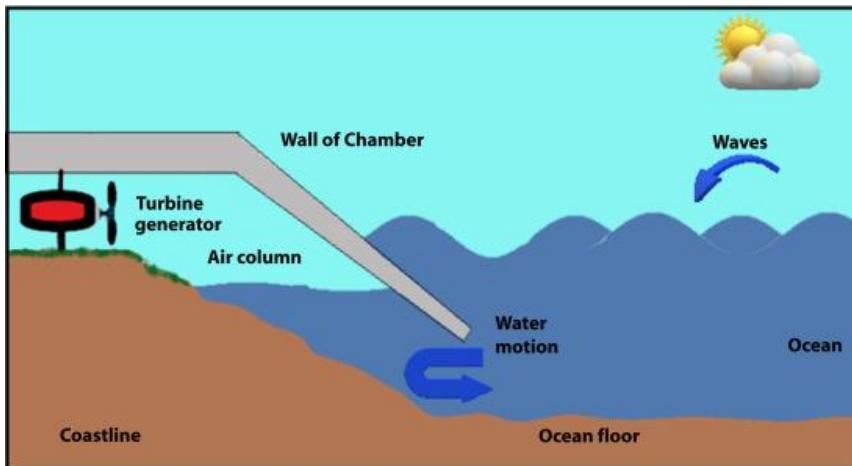


- On which river is it based?
- Name an Indian state benefitted by the project.

iii. a) Why is aluminium an important mineral in the automobile industry? [3]

b) Name two Indian states where aluminium is found.

c) How will indiscriminate mining negatively affect India in the future?



iv.

- Identify the energy being harnessed in the above picture. [3]
- Mention any two places where this energy can be successfully harnessed in India.
- How will the use of this energy source benefit our future generations?

Q.9.

- i. Mention one advantage and one disadvantage of the Green Revolution in India. [2]
- ii. a) State one point of difference between subsistence and commercial farming. [2]
b) Name the state that is the leading producer of wheat in India.
- iii. With reference to cultivation of oilseeds answer the following: [3]
 - a. Name the soil suitable for growth of oilseeds.
 - b. Mention the different ways in which groundnut is consumed by the people in India
 - c. Which state is the leading producer of soyabean?
- iv. Mr. Bipin has submerged his crop yield in the nearby pond for 'RETTING'. [3]
 - a. Name the crop Mr Bipin is cultivating in his field.
 - b. Mention any two climatic conditions suitable for this crop.

Q.10.

- i. Mention two points of difference between Public sector and Private sector industry. [2]
- ii. Explain any two ways in which iron and steel industry is important for the Indian economy. [2]
- iii. With reference to Indian Space technology answer the following: [3]
 - a. Which interplanetary mission by ISRO put India on the world map of Space technology?
 - b. Name the two rockets developed by ISRO.
 - c. Which ISRO centre is located in Hyderabad?
- iv. Give one reason to explain each of the following: [3]
 - a. Traditional Indian industries depend on agriculture.
 - b. Maharashtra has an advantage over Uttar Pradesh in the manufacturing of sugar.
 - c. Petrochemical industry is indispensable in the modern era.

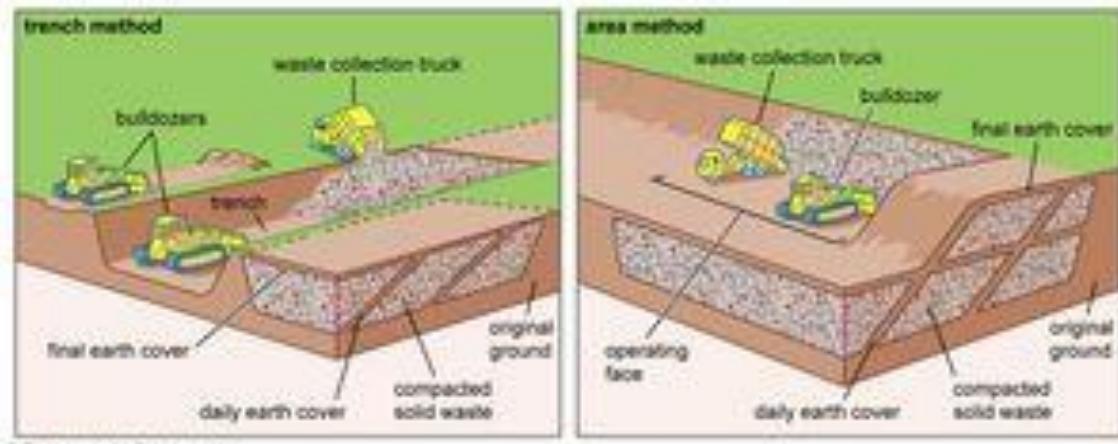
Q.11.

- i. Mention any two disadvantages of using roadways. [2]
- ii. Which are the common stretches between the Golden Quadrilateral and the North-South and East-West Corridor? [2]
- iii. a) "Indian industries rely on railways for domestic trade" Give reasons to support your answer. [3]
b) Water transport is cheap but not suitable for all regions and purposes in India. Give arguments in favour of the statement.
c) Which is the inland waterway that connects Guwahati to Kolkata.
- iv. Give a reason for each of the following. [3]
 - a) Leh has a domestic airport but not an international one.
 - b) There are fewer railway lines in Karnataka as compared to Uttar Pradesh.
 - c) Mumbai will soon be able to travel congestion free from the new Navi Mumbai airport to Gateway of India

Q.12.

i. What is the impact of waste generation on the following: [2]
a. Air Quality
b. Human health

ii. Study the picture given below and answer the questions that follow: [2]



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a) Name the method of waste disposal seen in the picture.
b) Why is this method preferable to Open Dumping?

iii. The students of Greenlawns School, Worli recently attended the [3]
I.I.M.U.N. 's interactive session with Honourable Chief Minister
Shri Devendra Fadnavis.
With reference to the visit answer the following questions.
a) Which environmental issue did the Honourable Chief Minister identify with
regards to water disposal in Mumbai?
b) How has he proposed to solve this issue?
c) What will be the positive result of his initiative?

iv. a) Which city has set a benchmark by being identified as the cleanest [3]
city in India for seven consecutive years?
b) Elaborate on any two ways adopted by the city in order to succeed
in this endeavor.
