



Estd. 1861

**BOYS' HIGH SCHOOL AND COLLEGE**  
**PRELIMINARY EXAMINATION (2023-24)**  
**GEOGRAPHY**  
**CLASS - X**

**Part -I**

**(30 Marks)**

**(Attempt all questions from this Part)**

**Q. 1 Study the extract of the Survey of India Map Sheet No. G 43S7 and answer the following questions:**

- (i) (a) Give the six figure grid reference for  $\triangle$  224.  
(b) Give the four figure grid reference for Stony waste. (2)
- (ii) If Raj goes on a bicycle from 02 northing to 12 northing in a straight line, at a speed of 10 km per hr, how much time will he take to reach his destination? (2)
- (iii) (a) What is the direction of Sipu river? (2)  
(b) What does the blue line inside the river indicate?
- (iv) After a decade long absence, Shiv was surprised by the progress in his home town Panthawada. What apparent changes serve as compelling evidence of the regions development and growth according to you? (2)
- (v) (i) Name one man made feature and one natural feature in the grid sq 2809. (2)  
(ii) How is the drainage pattern of stream in grid sq2407 different to grid sq 2606?

**Q. 2 On an outline map of India provided**

**(1X10)**

- (a) Shade and label the Karakoram Mountain.  
(b) Mark an onshore oilfield in India.  
(c) Shade and label Palk Strait.  
(d) Mark and label River Brahmaputra  
(e) Mark and label Nathu-La Pass  
(f) Shade and label the Kanara Coast.  
(g) Mark with arrows the direction of the winds which bring rain to West Bengal in summers.  
(h) Shade an area of Black Soil and label it.  
(i) Mark and label Hyderabad.  
(j) Shade and name one State with the highest density of population in India.

**Q. 3 Choose the correct answers to the questions from the given option.**

**(1X10)**

- (i) Which of the following is the correct set of answer to the characteristics of cold winter season.  
A. High temperature + Hot winds + Clear skies.  
B. High Rainfall + Hot winds + Humidity  
C. Clear skies + Low temperature + Fine weather  
D. No rains + Sultry weather + High temperature.
- (ii) Soil erosion is responsible for which of the following problems:  
A. Desertification  
B. Land degradation  
C. Damage to fields  
D. All of these
- (iii) Which soil covers the largest area of India?  
A. Red Soil  
B. Alluvial Soil  
C. Black Soil  
D. Laterite Soil
- (iv) Which of the following species of tree are common in Mountain forest.  
A. Cedar + Spruce + Silver Fir  
B. Gurjan + Hintal + Sundari  
C. Sundari + Babul + Kikar  
D. Cedar + Babul + Sundari
- (v) ..... provides door to door service  
A. Railways  
B. Roadways  
C. Coastal Shipping  
D. Airways
- (vi) Which of the following may be used for recharging of underground water?  
A. Planting of trees  
B. Gullies and valleys  
C. Percolation Pits  
D. Commercial farming
- (vii) The leading state in production of copper is  
A. Madhya Pradesh  
B. Uttar Pradesh  
C. Andhra Pradesh  
D. Karnataka
- (viii) Which of the following is not a problem of Indian agriculture?  
A. Consolidation of land holding  
B. Use of poor quality seeds  
C. Small and uneconomic land holdings  
D. Soil erosion

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**Experts' Institute**  
8-D, Kutchery Road, Ph:9415368884

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- (ix) The most dominant crop grown in Kharif season is  
 A. Wheat. C. Pulses  
 B. Rice D. Mustard
- (x) The best example of private sector industry is  
 A. Bharat Heavy Electricals Ltd. C. Tata Steel Ltd  
 B. Amul India D. Oil India Ltd.

**Part II** **(50 Marks)**  
**(Attempt any five questions)**

**Q. 4.**

- (i) Western cyclonic disturbances typically form over the Mediterranean sea, are drawn towards our country. They carry significant amount of moisture and are responsible for bringing in precipitation to the affected area.  
 (a) Name the two States that are affected by this cyclonic system (2)  
 (b) Why is this rainfall important? (2)
- (ii) (a) State one benefit of each of the following local wind (2)  
 (i) Mango Shower (ii) Kal Baisakhi  
 (b) State two features of the Indian Monsoon season.
- (iii) Give a reason for each of the following: (3)  
 (a) The western coastal plains receive more rainfall than the eastern coastal plains in summer.  
 (b) Goa is not cold even in the month of December  
 (c) Central Maharashtra receives little rainfall.
- (iv) Study the climatic data given below and answer the following questions. (3)

Month	J	F	M	A	M	J	J	A	S	O	N	D
Temp °C	23.8	25.0	27.7	28.3	30.2	30.3	30.4	30.3	30.0	30.3	25.5	24.2
Rainfall cm	0	0	1.1	1.5	2.1	45.3	46.5	45.4	43.3	20.1	3.0	0.1

- (a) Calculate the mean annual temperature  
 (b) What is the total rainfall during the monsoon season  
 (c) Does the station have a maritime or a continental climate. Give a reason
- Q. 5.**
- (i) (a) Name the process by which Laterite soil is formed. (2)  
 (b) Mention one disadvantage of this soil.
- (ii) State any two agricultural practices that help in conservation of soil. (2)
- (iii) Give a reason for each: (3)  
 (a) Man is largely responsible for soil erosion  
 (b) Black soil does not get leached.  
 (c) Different regions in India have different kind of soil
- (iv) With reference to Red soil answer the following: (3)  
 (a) State one characteristic of Red soil  
 (b) Why is it good for Dry farming?  
 (c) Name a crop associated with it

**Q. 6**

- (i) Shyam went to forest where he found Mahogany and Rosewood (2)  
 (a) Name the forest where these trees are found.  
 (b) State the temperature and rainfall of the forest you have named.
- (ii) State two characteristics of Tropical Deciduous forests. (2)
- (iii) With reference to thorn and scrub vegetation (3)  
 (a) Where are they found in India?  
 (b) Mention one feature of this forest  
 (c) Name a tree which belongs to this forest.
- (iv) Why is forest conservation the need of the hour? (Three points) (3)

**Q. 7**

- (i) "Without irrigation development of agriculture is difficult in India". Clarify the statement by giving two reasons. (2)
- (ii) (a) Where is tank irrigation more popular? (2)  
 (b) Give an account for its popularity in that region.
- (iii) (a) State a difference between well irrigation and canal irrigation (3)  
 (b) Name a state which is common to both the sources of irrigation.  
 (c) What according to you would be one requirement suitable for both the



- above means of irrigation.
- (iv) (a) Sprinkler irrigation although expensive, still it is in use. Give a reason (3)  
(b) State two objectives of rainwater harvesting.

**Q. 8.**

- (i) (a) Name two varieties of iron ore used in industry. (2)  
(b) State one use of iron ore.
- (ii) (a) Name the ore of aluminium (2)  
(b) Mention the largest producer of this ore.
- (iii) (a) Coal mining has many drawbacks. State two reasons (3)  
(b) Mention the river on which Hirakud dam is situated. Give one benefit of this dam.
- (iv) (a) State a reason for extensive use of Non Conventional use of energy in India. (3)  
(b) Which energy is the most popular energy harnessed in the country?
- (c) Mention one advantage of geothermal energy.

**Q. 9**

- (i) Mention two agricultural reforms implemented by the government for betterment of farmers. (2)
- (ii) (a) State the temperature and rainfall condition for wheat cultivation. (2)  
(b) Which State is the largest producer of wheat in India?
- (iii) (a) Mention any two characteristics of Plantation agriculture (3)  
(b) Why are coffee estates inter-planted with cardamom and pepper vines?
- (iv) Suresh is a farmer. He asked his friend to help him get some labour for Ratooning. (3)  
(a) Name the crop grown by Suresh.  
(b) Pulses are grown widely by farmers. Give a reason.  
(c) State the growing season of groundnut and soya bean.

**Q10.**

- (i) Why cotton industry is facing problems of infrastructure? (Two reasons) (2)
- (ii) (a) State why sericulture has flourished in Karnataka. (2)  
(b) There has been a shift of sugar industry to South India. Give a reason.
- (iii) (a) Name the electronic capital of India. (3)  
(b) On what factors does the location of Petrochemical Industry depend.
- (iv) With reference to Rourkela Steel Plant answer the following: (3)  
(a) Name the foreign collaborator of this plant.  
(b) From where does this plant get its iron ore and coal?

**Q. 11**

- (i) What is the Golden Quadrilateral? Mention its economic benefit. (2)
- (ii) Development of transport is important for the growth of a nation. Give two points. (2)
- (iii) Give a reason for the following: (3)  
(a) Railway is the most comfortable means of transport by all. Why?  
(b) Name two areas where railway is less developed.
- (iv) (a) State two factors affecting water transport. (3)  
(b) Mention one disadvantage of the fastest means of transport.

**Q. 12**

- (i) (a) State two ways in which segregation of waste can be done (2)  
(b) Name the most inexpensive and most popular means of solid waste disposal.
- (ii) Mention two advantages of composting of waste. (2)
- (iii) Why is there a need for waste management? Give three points. (3)
- (iv) Mention three ways to reduce waste generated at home. (3)

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