

LILAVATIBAI PODAR HIGH SCHOOL(ISC)
Preliminary Examination - 2018-19

Subject: Geography
Std.: X

Points: 80
Duration: 2hrs

Instructions

Answers to this Paper must be written on the paper provided separately.
The time given at the head of this Paper is the time allowed for writing the answers.
The intended marks for questions or parts of questions are given in brackets [].
Attempt seven questions in all.
All questions from Part I are to be attempted.
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 Survey of India map sheet no 45D/10 and answer the following questions-

- a) Find out the six figure grid reference of the following- [2]
 - i. Surveyed tree 275
 - ii. Temple east of Pamera
- b) What is the compass direction of Hathal from Anadra. [1]
- c) What is the means of transport one would use to travel from Gulabganj to Harmatiya. [1]
- d) Give two reasons to show that the area depicted in the map experiences seasonal rainfall. [1]
- e) What do the following represent-
 - i. 20r in 1622 [1]
 - ii. LY in 1414 [1]
 - iii. Causeway in 1715 [1]
 - iv. Brackish in 1915 [1]
 - v. 21 in 1717 [1]
- f) What is R.F? What is the R.F of the given map extract? [2]
- g) Name the most developed settlement in the given map extract. Give a reason to support your answer. [2]
- h) Differentiate between drainage pattern in 1422 and 2013. [2]
- i) Calculate the distance in kilometers along the canal in the given map extract. [2]
- j) Calculate the area in sq km between northing 15 & 19 and easting 13 & 18. [2]

This paper consists of 5 printed sides

Question 2

On the outline map of India provided –

- a) Mark with arrows the direction of the *North East Monsoon winds*. [1]
- b) Shade and name *Lake Chilka*. [1]
- c) Mark and name *Chandigarh*. [1]
- d) Shade and label *Northern Circars*. [1]
- e) Mark and name *Mount Godwin Austin*. [1]
- f) Mark with a dot the *Jharia* coal field. [1]
- g) Shade and label a region of *Alluvial soil* in the North East. [1]
- h) Shade and name a *sparsely populated region* in India. [1]
- i) Label the *River Ganga*. [1]
- j) Mark and label *Nathu la pass*. [1]

PART II (50 Marks)

Attempt any five questions from this Part

Question 3

- a) Define- [2]
 - i. October Heat
 - ii. Burst of monsoon
- b) State two features of rainfall in India. [2]
- c) Give a geographical reason- [3]
 - i. Kochi does not experience a well defined cold weather season.
 - ii. The snow that falls on the south facing slopes of the Himalayas melts faster than that on the north facing slopes.
 - iii. Manali is colder than Ahmedabad in winters.
- d) Study the climatic data provided below and answer the questions that follow: [3]

| Station | Month | Jan | Feb | Mar | April | May | June | July | Aug | Sep | Oct | Nov | Dec |
|---------|---------------|------|------|------|-------|------|------|------|------|------|------|------|------|
| A | Temp (°C) | 20.1 | 21.5 | 25.1 | 29.1 | 30.1 | 27.5 | 25.5 | 23.7 | 23.5 | 25.1 | 23.1 | 19.5 |
| | Rainfall (cm) | 0.2 | 0.2 | 0.7 | 1.7 | 2.8 | 10.1 | 15.7 | 10.1 | 12.1 | 9.5 | 2.9 | 0.2 |
| B | Temp (°C) | 24.1 | 24.5 | 27 | 28.1 | 30.2 | 29.1 | 27.1 | 27.8 | 26.1 | 26.1 | 27.5 | 24.9 |
| | Rainfall (cm) | 0.1 | 0.3 | 2.1 | 2.7 | 10.1 | 40.1 | 50.1 | 65.0 | 38.1 | 26.0 | 4.1 | 3.1 |

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- i. Calculate the annual range of temperature of station B. 6.1
- ii. Calculate the annual rainfall for station A. 85cm
- iii. Presuming both the stations are located on the west coast of India, name the one which lies on the windward side of the Western Ghats. Give a reason for the same. Station B

Question 4

- a) Name the following- [2]
 - i. The type of erosion seen throughout the eastern and western coast of India.
 - ii. Soil formed by prolonged weathering of crystalline rocks.
- b) Give reasons- [2]
 - i. The Gangatic plains have alluvial soil.
 - ii. Shivaliks and hilly areas of south India are affected by soil erosion.
- c) With reference to regur soil, answer the following- [3]
 - i. It is also known as lava soil. Give a reason.
 - ii. State one characteristic. cotton & rice soil
 - iii. Name two crops which grow well in this soil.
- d) With reference to soil erosion/ conservation in India, answer the following- [3]
 - i. Name an area in Gujarat which is badly affected by soil erosion.
 - ii. Mention a way in which soil erosion can be checked in urban areas.
 - iii. State the aim of the soil conservation programs under the State Plan.

Question 5

- a) Mention how trees adapt to survive in the Littoral forest. Name two trees found in these forests. Sundarban [2]
- b) With which type of natural vegetation are the following trees associated- [2]
 - i. Sal
 - ii. Date palm
 - iii. Keora
 - iv. Magnolia
- c) Give reasons- [3]
 - i. Xerophytic vegetation is found in deserts.
 - ii. Deforestation increases the greenhouse effect in the environment.
 - iii. Tidal forests are called Sundarbans in the Ganga Delta.
- d) Define Social Forestry. State two objectives. [3]

Question 6

- a) Define- [2]
 - i. Rainwater Harvesting
 - ii. Aquifer
- b) With reference to conventional methods of irrigation, answer the following- [2]
 - i. Well irrigation is mainly confined to the alluvial plains. Give a reason.

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- ii. A reason why tank irrigation is popular in the Deccan.
- c) i. State a reason why we need to conserve rainwater. [1]
 ii. Name the four elements of rainwater harvesting. [1]
 iii. Mention a reason why irrigation is important in India [1]
- d) With reference to modern methods of irrigation, give reasons for the following- [3]
- i. Furrows must have equal dimensions.
 ii. Drip irrigation allows the grower to customise an irrigation programme.
 iii. Plant diseases can be caused due to spray irrigation.

Question 7

- a) State two uses of manganese. [2]
 b) Name- [2]
 i. An off shore oilfield.
 ii. A state where Gondwana coalfield is found.
- c) With reference to non conventional sources of energy, answer the following- [3]
- i. India has an advantage of harnessing solar energy. Give reason.
 ii. State the twin benefits to farmers from biogas plants.
 iii. State an advantage of geothermal energy.
- d) i. State an aim of the Bhakra Canal System. [1]
 ii. Ethyl Mercaptan is added to LPG. Give a reason. [1]
 iii. Why is Mumbai High so called? [1]

Question 8

- a) State two ways in which agriculture plays a significant role in the Indian economy. [2]
 b) Define millets. State the temperature and rainfall requirements for bajra. [2]
 c) Name the crops with which the following processes are associated. Explain the processes. [3]
 i. Ratooning
 ii. Retting
 iii. Withering
- d) Give reasons- [3]
 i. Green tea is highly flavoured and a strong stimulant.
 ii. Cover crops like silver oak and jackfruit are planted before the coffee plantation.

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