

M.P. BIRLA FOUNDATION H.S. SCHOOL
Selection Examination 2020-21
Geography
Class- X

Full Marks : 80
Time : 2 Hours

All questions from Part I are to be attempted. A total of five questions are to be attempted from Part II. All sub-sections of the questions attempted must be answered in the correct serial order.

PART I (30 Marks)
Attempt all questions from this part

Q1. Study the extract of the Survey of India Map sheet No. 45D/10 and answer the following questions. (20)

- a) What is the general slope of the land in the given extract? Give one reason.
- b) Identify the drainage patterns at 0705 and 0704.
- c) Mention four signs of dryness seen in the extract.
- d) Give four figure grid references for i) the dry tank at Dhavli and ii) Settlement Rampura Khera.
- e) Mention two occupations of the people of Dattani.
- f) What is the direction of Mitani and Dattani from Rampura Khera?
- g) Name two types of vegetation you identify in the extract.
- h) What does brown line at 0002 refer to?
- i) Define contour interval. What is the contour interval of the given map?
- j) Calculate the area of the region enclosed between EASTINGS-02,08 and NORTHINGS-03,06.

Q2. On the outline map of India provided mark and name: (10)

Coromandel coast
Aravalli
River Mahanadi
River Yamuna
Gulf of Khambhat
An off-shore oil field
Delhi
82 1/2 degree E
Bay of Bengal branch of S.W Monsoon
A region of sparse population in eastern India

Part II (50 marks)
(attempt any five questions)

Q3. a) Name two regions which receive cyclonic rainfall in India. (2+2+3+3)

- b) Mention two characteristics of Indian Monsoon .
- c) Give reasons- i) Mangaluru is cooler than Delhi in the summer season.
ii) Mumbai receives heavier rainfall than Pune.

d) Study the climatic data and answer the following questions.

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
Temp. °C	24.5	25.7	27.7	28.4	30.0	32.5	31.0	30.2	29.8	28.0	25.9	24.7
Rainfall cm.	4.3	1.6	1.7	2.4	2.8	4.6	8.6	11.4	11.8	30.6	35.0	13.9

- i) What is the annual range of temperature?
- ii) Calculate the annual rainfall experienced by the station.
- iii) On which coast of India does the station lie? Give a reason.

- Q.4 a) Name the (i).Older alluvium and (ii).Soil with self ploughing property. (2+2+3+3)
- Name the parent rock that contributes to the formation of red soil.
 - How does this soil get its red colour?
 - What is soil erosion? Mention two steps that could be taken to prevent such erosion.
 - Why is laterite soil considered infertile?
 - Mention one characteristic of black soil.
- Q.5 a) Mention one use of sandalwood and name the state where it is mostly found. (2+2+3+3)
- Name two trees found in the tidal forest and mention one use.
 - Which forest grows on the windward side of the Western Ghats and why?
 - Why is afforestation essential in the cities that have iron and steel industries?
 - State two ways by which forests help in protecting the environment.
 - Mention one important feature of the desert plant which helps them to survive in the dry condition.
- Q.6 a) Mention two reasons why are we facing water scarcity in recent times. (2+2+3+3)
- What is rain water harvesting? State its one objective.
 - Give a reason for each:
 - Most of the peninsular states of India are not suitable for canal irrigation.
 - Development of irrigation is essential for the growth of agriculture in India.
 - Mention two differences between inundation and perennial canals.
 - Name two states where tube well irrigation is mostly practised in India.
- Q.7 a) i Mention one disadvantage of coal as a source of power. (2+2+3+3)
- Name the largest coal field of India.
 - Name two major nuclear minerals of India.
 - Name the leading iron ore producing state of India with its one district.
 - State one industrial use of copper.
 - Mention one advantage of generating power from bio gas.
 - Name the mineral that toughens steel and makes it rust proof.
 - Solar energy has a good prospect in India – Justify the statement.
 - What basic geographical condition is essential for generating wind energy? Name a region where it can be harnessed.
- Q.8 a) Mention one problem of Indian agriculture. Suggest a remedy for that. (2+2+3+3)
- With reference to cultivation of tea answer the following questions;
 - Why is tea grown on hill slopes?
 - Why tea bushes have to be pruned at a regular interval?
 - What are the geographical conditions required for rice cultivation in India?
 - Give reasons (one reason for each);
 - Agriculture is important in India.
 - Pulses are important rotation crop.
 - Ratoon cropping is gaining popularity among the sugarcane cultivators.
- Q.9 a) i. Where does Tata Iron and Steel Company get its power supply from? (2+2+3+3)
- Which foreign company has helped in the development of Rourkela Steel Plant?
 - State two factors which have helped in the growth of cotton textile industry in Mumbai.
 - Give reasons:
 - Petrochemical products are gaining popularity in India.
 - The electronic industry is proving to be an asset for the students specially in this current situation.
 - Mention two problems of north Indian sugar producing states.

Q.10 a) Mention one advantage and disadvantage of inland water transport of India. (2+2+3+3)

b) Give two advantages of air transport.

c) Give reasons:

i. Roadways are not well developed in north eastern India.

ii. Nearly 70% of Indians do not use air transport.

d) Name -

i. Two places connected by narrow gauge railway.

ii. Present name of Sher Shah Suri marg.

iii. The most important natural port of India.

Q.11 a) Mention two objectives of composting. (2+2+3+3)

b) Name two biodegradable and two non-biodegradable wastes.

c) i. What is the need for segregation of waste?

ii. State one effect of hazardous waste on human health.

d) Mention two ways how you as an individual can contribute towards waste management.