

BARNES SCHOOL AND JUNIOR COLLEGE, DEVLALI
HALF YEARLY EXAMINATION 2011-2012

GEOGRAPHY

Time : 2 Hrs.

CLASS 10

Max. Marks 80

(Instructions)

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

This time is to be spent in reading the question paper.

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

Attempt seven questions in all.

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

A total of five questions are to be attempted from Part II.

The intended marks for questions or parts of questions are given in brackets. []

Part I (30 Marks)

(Attempt All Questions from this Part)

Question 1.

Study the extract of the Survey of India Map sheet No 45D/7 and answer the following questions:

(a) What is the meaning of 1:50,000 printed below the map. [1]

(b) Give the six figure grid reference.

(i) The Triangulated Height 307 [1]

(ii) The spot Height 187. [1]

(c) Give the four figure grid reference of each of the following.

(i) A open Scrub. [1]

(ii) A sheet rock. [1]

(d) (i) What is the general direction of flow of the Sipu river ? [1]

(ii) What does the blue line in the bed of the Sipu river represent? [1]

(e) (i) What is the compass direction of Chodungri 7235 from Bhakodur 7137? [1]

(ii) Name the type of drainage pattern found in grid square 7035 and 7135? [1]

(f) (i) What kind of land feature do you see on both the side of Sipu river? How is it formed? [2]

(g) (i) What is the main mode of transport shown in the map extract? [1]

(ii) What according to you is the main occupation? Give reason for your answer. [2]

- (h) What is the chief form of irrigation shown in the map extract ? [1]
- (i) Measure in km. the length of the blue channel of Arado nadi in the extreme south east corner of the map extract. [1]
- (j) (i) On which bank of Sipu river is Mahadi Moti settlement located ? [1]
(ii) What is the type of this settlement ? [1]
- (k) What is the area of the land shown between 71 to 73 Eastings and 33 to 35 Northings ? (show the steps) [2]

Question 2.

On the outline map of India mark and label the following:-

- (i) Mark and label the Karakoram range. [1]
- (ii) Mark and name Malabar coast. [1]
- (iii) Mark and name the lake Chilka. [1]
- (iv) Mark and name the biggest river of South India. [1]
- (v) Mark the areas in India which have red soil. [1]
- (vi) Mark an area in South India which has winter rainfall. [1]
- (vii) Mark the river Satluj. [1]
- (viii) Show with an arrow the direction of South West monsoon winds. [1]
- (ix) Mark and name a coal field in Jharkhand. [1]
- (x) Mark and name the Mumbai High oil field. [1]

Part - II (50 Marks) (Attempt any five)

Question No. 3

- (a) Describe the main features of cold weather season of the Indian Sub continent under the following heads, [3]
- i) Duration
- ii) Prevailing winds
- iii) Rainfall
- (b) "Chennai gets more rainfall in winter than summer." give the reasons. [2]

- (c) What are western disturbances? Name two areas receiving rains from them. [3]
- (d) Why does Rajasthan receive scanty rainfall? [2]

Question 4

- (a) What are jet streams? [2]
- (b) Describe why Jaipur has a higher annual range of temp than Mumbai? [2]
- (c) Why does Cherrapunji receive the highest rainfall in the world? [3]
- (d) Study the climate data given below and answer the questions that follow:-

Month	J	F	M	A	M	J	J	A	S	O	N	D
Station 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
Rain Cm	2.5	1.5	1.3	1.0	1.8	7.4	19.3	17.8	11.9	1.3	0.2	1.0
Station B												
Temp °C	24.4	24.4	26.7	28.3	30.0	28.9	27.2	27.2	27.2	27.8	27.2	25.0
Rain Cm	0.2	0.2	-	-	1.8	50.6	61.0	36.9	24.8	4.8	1.0	-

- i) What is the annual range of temp. at station B? [1]
- ii) Which of these stations has an equable climate? [1]
- iii) Calculate the annual rainfall in Station A? [1]

Question 5

- (a) Name the transported soil most widely found in India. State two sub categories into which it is generally divided. [2]
- (b) Name the soils which is formed due to high temperature and heavy rainfall with alternating wet and dry periods. Mention two states where this type of soil is found. [2]
- (c) Write any two features of red soil. Why is it not suitable for agriculture? [3]
- (d) What does conservation of soil mean? Name any two agronomic techniques which help in soil conservation. [3]

Question 6

- (a) What are "tidal forests"? [2]
- (b) Name two typical trees found there. [2]
- (c) How do desert plants correlate with the environment? [3]

- (d) Mention any three steps which have been taken by the Govt. of India to protect forest ? [3]

Question 7

- (a) What is Multipurpose river valley project? [2]
- (b) With reference to Bhakra Nangal Project answer the following questions.
(i) Name the river on which it is located. [1]
(ii) Name the reservoir. [1]
- (c) Why is there need for irrigation in India? [3]
- (d) Mention three drawbacks of tank irrigation. [3]

Question 8

- (a) What do you understand by "mineral ore"? [2]
- (b) Which state is the largest producer of mineral oil, Name any two oil refineries of India. [2]
- (c) (i) Which is the oldest and largest coal field in India ? [3]
(ii) Name any two by - products derived from coal ?
- (d) Which are the different types of iron ore found in India? Which is the best quality iron ore out of these? [3]

Question 9

- (a) Explain the origin of Black Soil. Name two states in India which have black soil. [2]
- (b) Khadar is more fertile than Bhangar. Give reasons. [2]
- (c) What are the different types of soil erosion? Explain each. [3]
- (d) How does the soil of the Ganga Yamuna plain differ from that of central Maharashtra? [3]

Question 10

- (a) Mention two uses of manganese. [2]
- (b) Mention two leading producers of manganese. [2]
- (c) Why are many oil refineries located near major sea ports? [3]
- (d) Why is bauxite important? which states lead in the production of it? [3]

Question 11

- (a) Distinguish between inundation canals and perennial canals? [2]
- (b) Give two reasons why well irrigation is more important in northern India than in Southern India. [2]
- (c) Name three states where tube wells are used extensively. [3]
- (d) Why is tank - irrigation dominant in peninsular plateau region? [3]