

STD X

MAR THOMA RESIDENTIAL SCHOOL, TIRUVALLA
FIRST TERMINAL EXAMINATION-August 2017
GEOGRAPHY

Time: 2 Hrs
Marks: 80

PART I(30 Marks)

Attempt all questions from this Part

Question 1

Study the extract of the Survey of India Map sheet No. 45D/10 and answer the following questions:

- (a) Give the *six figure grid reference* for: [2]
(i) The highest point in this map extract.
(ii) Surveyed tree north of Rampura Khera
- (b) On which bank of Sukli Nadi lies: [2]
(i) Butri
(ii) Padrugarh
- (c) Differentiate between the drainage pattern shown in grid square: [2]
(i) 0704
(ii) 0705
- (d) The region in this map extract receives seasonal rainfall. Give two reasons for your answer. [2]
- (e) Calculate the distance in km between settlement Bhatana and Makawal along the cart track. [2]
- (f) State the Compass direction of the following: [2]
(i) Dattani from Marol.
(ii) Dhavli from Makawal.
- (g) (i) Mention a social activity of people living in Marol. [2]
(ii) What is the main occupation of the people living in this region?
- (h) What do you understand by: [2]
(i) The black broken line in 0807
(ii) The vertical black line close to Easting 10
- (i) What is the main source of water supply to Bhatana? Give a reason for your answer. [2]
- (j) (i) Name one natural feature in the grid square 0905.
(ii) Identify one man made feature in the grid square 1003.

Question 2

On the outline map of India , mark the following:

[10]

- Mark and name the *Vindhya Mountain Ranges*.
- Shade and name the Malabar Coastal Plains.
- Mark an area with laterite soil below the *Tropic of Cancer*.
- Mark and name the river *Gomti*.
- Mark and name *Allahabad*.
- Mark and name the *Wular Lake*.
- Shade and name the *Andaman Sea*.
- Mark with an arrow the *direction of the Westerly depression winds*.
- Mark and label the *Karakorum Pass*.
- Label the river *Godavari*.

Part II (50 marks)

Question 3

- State any four important *characteristic features* of monsoon rainfall in India. [2]
- Name the two types of cyclonic systems that affect India and two areas that receive rainfall from these systems. [2]
- Give *reasons* for the following:
 - The diurnal range of temperature during summer is greater at Bikaner (Rajasthan) Than at Panjim(Goa).
 - Central Maharashtra receive little rainfall.
 - The Himalayas is called a 'climatic divide'.

(d)

Station	Months	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV
A (1000m above mean sea level)	Temp in Degree C	10.4	13.4	20.7	21.3	23.0	23.9	23.8	22.8	20.9	16.3	13.1
	Rainfall in cms	0.1	0.1	0.6	0.8	2.8	12.6	19.6	23.6	20.5	10.9	1.1
B (Sea level)	Temp. in Degree C	21.1	21.9	25.6	28.1	28.2	26.3	26.1	25.7	25.6	26.4	24.1
	Rainfall in cms	0.2	0.3	0.3	11.1	13.0	23.2	27.7	20.3	15.8	7.7	0.3

- Which of the two stations is closer to the sea? Give a reason for your answer.
- Which of the two stations has a lower temperature in winter? Why?
- Calculate the annual rainfall of station A.

Question 4

- (a) Name the process by which laterite soil is formed. What climatic conditions are responsible for its formation. [2]
- (b) Give *reasons* for each of the following:
(i) Black soil is largely found in the Deccan trap region.
(ii) Khadar is more fertile than Bhangar.
(iii) Soil erosion by wind is common in arid regions. [2]
- (c) Mention two ways by which soil can get nitrogen. [2]
- (d) Explain the need for soil conservation used in agricultural fields. [3]

Question 5

- (a) What are *Tidal forests*? Name two typical trees found there. [2]
- (b) Name the type of forests found in the western part of the Western Ghats. [2]
Give two reasons why these forests are so named. [2]
- (c) Name any three trees found in monsoon deciduous forests and state one use of each of these trees. [3]
- (d) Briefly explain the reasons for forests being an important natural resource. [3]

Question 6

- (a) Name any two states in which well irrigation is widely used. Give reasons why it is done in these states. [2]
- (b) State the disadvantages of tank irrigation. [2]
- (c) Distinguish between
(i) Inundation and perennial Canal
(ii) a dam and a barrage [1]
- (d) Which is the best modern method of irrigation? Explain. [1]
- (e) Describe the elements of rainwater harvesting. [1]

Question 7

- (a) State any four important characteristics of Indian Agriculture.
- (b) Which state in India produces the largest quantity of raw cotton. Mention the geographical requirements for growing this crop.
- (c) Name the months when Kharif and Rabi crops are (i) sown (ii) harvested
- (d) Explain briefly what is meant by the following terms:
(i) Ratooning
(ii) Retting
- (e) State the important features of the Japanese method of rice cultivation.

