

Part I (30 marks)

Attempt all questions from this part.

Question 1:

[20 marks]

(2 each)

Study the extract of the survey of India map sheet no 45 D/7 and answer the questions that follow. [2018]

a- i- Give the 6 figure grid reference of the perennial lined well to the extreme south west section of the map.

ii- Calculate the area enclosed between Easting 93 and 97 and Northing 87 and 90.

b- i- Calculate the difference in height between the highest spot height and the contour height in 9782.

ii- Calculate the distance as the crowflies between Δ 268 and .259 in meters.

c- Identify the black broken lines in 9680. How are they caused?

d- Identify 1 manmade and 1 natural evidence that shows that the region receives seasonal rainfall.

e- What do the following mean?

i- Open scrub

ii- 3r in 9089

iii- 400 in 9386

iv- Blue line in the main river

f-i- If the horizontal black line in the northern section of the map reads $24^{\circ}20'N$, would this region receive the vertical rays of the sun? Give a reason for your answer.

ii- Identify the 2 manmade features in 9188.

g- With reference to the Balaram nadi answer the following:

- i- Give the direction of Balaram nadi.
- ii- What type of river is the Balaram nadi.
- iii- Identify the white patch in the Balaram nadi.
- iv- Which bank of the main river does the Balaram nadi join?

h-i- Differentiate between the drainage pattern of 9782 and 9182.

ii- Differentiate between the type of settlement in 9580 and 9787?

i-i- Give 2 evidences to show that agriculture is the most important occupation of the people on the map.

ii- Identify the 2 types of roads used by people living in settlement Juvol.

j-i - Define the term contour. How are cliffs depicted on a survey map?

ii- Identify 2 contour features shown in 9185.

Question 2:

[10 marks]

Mark and label the following on the physical map of India:

- a. Vindhyas.
- b. The longest river in peninsula India.
- c. The deepest landlocked port handling petroleum products.
- d. The winds which bring rain to the Coromandel coast in winter.

e. The coalfield with the largest coal deposits.

f. A densely populated region in India.

g. The standard time meridian of India.

h. The Nathu la Pass.

i. A region of laterite soil in North India.

j. Lake wular.

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Part II (Answer any five questions)

Question 3: *

[10 marks]

a. Explain 2 characteristics of the Indian monsoon.

(2)

b. Differentiate between the winter rainfall in north and south India.

(2)

c. Give reasons for the following:

(3)

i- Jodhpur has a high diurnal range of temperature

ii- India has varied climatic conditions.

iii- Local winds are beneficial to west Bengal.

d. Study the following data and answer the following questions:

(3)

Month	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sept	Oct	Nov	Dec
Temp ^o	2.6	13.2	20.4	38.2	41.6	38.4	34.5	31.1	27.1	20.6	12.5	1.1
Rainfall cm	14.2	18.5	-	-	1.8	5.2	6.8	1.2	-	-	24.4	22.0

i) Calculate the annual range of temperature of the above station.

ii) Calculate the mean winter rainfall of the station

iii) Give the exact location of this station. Justify your answer.

Question 4: •

[10 marks]

- a) Differentiate between Transported and insitu soil. (2)
- b) Red soil is beneficial for the Indian farmer- Explain. (2)
- c) i- Differentiate between the 2 types of ^{soil} erosion. (3)
- ii- 'Afforestation is essential for soil conservation'. - explain (3)
- d- Define:
- i- Bhangar
- ii- Humus
- iii- leaching

Question 5: •

[10 Marks]

- a- i- The eastern side of the western Ghats have monsoon forests. - Explain
 ii- Give one characteristic of the forest that makes it economically the most important. (2)
- b- i- Define agro forestry (2)
 ii- Desert vegetation is well adapted to the drought conditions - Explain

c- Answer the following:

(3)

- i- Evergreen forests are not the economically most important forest belt of India. -explain. (2 points)
- ii- Name 1 important tree found in this forest belt.

d- i- Forests are crucial – Explain [2 points]

(3)

- ii- Extension forestry is essential – Explain [1 point]

Question 6:

[10 Marks]

- a- The usage of Non – conventional energy sources is the ‘need of the hour’ - Explain. (2)
- b- Name the types of coal fields found in India. Give one important mine for each. (2)
- c- i-Give 2 advantages of using biogas energy. (3)
ii-How does the government help to promote the above.
- d- i-Give 2 important uses for copper. (3)
ii-Give one advantage of using compressed natural gas.

Question 7:

[10 Marks]

- a- Tube well irrigation is not always beneficial- Explain. (2)
- b- ‘The Deccan is best suited for tank irrigation’- Explain. [2 points] (2)
- c- i-Inundation canals are converted to perennial canals. -Explain. (3)
ii-Differentiate between a dam and a barrage. [2 points]
- d- i-Rainwater harvesting is essential. - Explain [2 points] (3)
ii-Identify an Important method of rainwater harvesting.

[10 Marks]

Question 8:

- a- Name 2 coarse grains grown in India. - why are they so called? (2)
- b- Differentiate between intensive and extensive farming. (2)
- c- Give geographical reasons for the following: (3)
 - 1- Pulses are important for crop rotation.
 - 2- Pruning is essential for the tea plant.
 - 3- Sugarcane is labor intensive.
- d- i-Give the climatic requirements for growing rice. (3)
ii-Explain the term retting.

Question 9:

[10 Marks]

- a-Differentiate between Basic and consumer industries, with one example each. (2)
- b- Explain 2 problems faced by the sugar industry in North India. (2)
- c- i-Differentiate between integrated and mini steel plants. [2 points] (3)
ii-Give one advantage of petrochemical products.
- d. i- What does ECIL stand for? Where is it located? (3)
ii-Identify one problem of the cotton textile industry.

Question 10:

a- Inland waterways are not suitable for peninsular India.- Explain [2 points](2)

b- Give 2 advantages of Airways. (2)

c-i- Identify the 3 categories of railways. (3)

ii-Identify the railway line which is considered an 'engineering marvel'.
Which 2 places does it connect.

d-Name the following (3)

i-Name the headquarter of the south western railway.

ii-India's first 6 lane high speed tolled expressway.

iii-India's largest express highway project in India and connects the 4 largest metropolises.

iv-Identify the Tidal port and the free trade zone.

v-Between which 2 places does National waterway number 3 run.

Question 11: ●

a- What is Acid rain? What are the impacts of it? (2)

b- Explain 2 advantages of sanitary landfills. (2)

c- Write a short note on Bio magnification. (3)

d- i-Explain 2 advantages of composting. (3)

ii-The 'Resident welfare association (RWA) plays an important role in conserving the natural resources'- give an example to support the above statement.
