



- c) Well irrigation is an old method of irrigation.
d) Wells can irrigate 40-50 hectares of land.
- (v) If you have to carry valuable medicine urgently to a disaster affected area you will travel by
a) A train because it can carry a huge number of passengers and heavy load.
b) A car because it will be safe during a disaster.
c) Air transport because it is the fastest mode of transport.
d) Water transport because it will be cheapest and you need to save money during a disaster.
- (vi) Konkan coast receives orographic rainfall as
a) It lies on the windward side of the Eastern Ghats.
b) It lies on the windward side of Western Ghats.
c) It lies on the windward side of Nilgiris hills.
d) It lies on the windward side of Aravalli.
- (vii) Which of the following is NOT a benefit of rainwater harvesting in India?
a) Reduction of soil erosion in cultivable land.
b) Promotion of excessive groundwater extraction.
c) Reduction of flooding of urban areas.
d) Increased availability of underground water.
- (viii) **Assertion (A):** The traffic on Indian roads, especially in cities, is too high.
Reason (R): Traffic on roads increases travel time and causes congestion, pollution and road accidents.
a) Both A and R are true and R is the correct explanation of A.
b) Both A and R are true but R does not explain A.
c) A is true but R is false.
d) A is false but R is true.
- (ix) Which is the best way to dispose of the following solid waste?



- a) Dumping
b) Open incineration
c) Composting
d) Recycling.
- (x) The Mangrove forests of Ganga delta are known as:
a) Monsoon Forests
b) Sundarbans
c) Swamps
d) Tropical Forests.

PART - II [50 Marks]

(Attempt ANY FIVE questions from this part)

Question 4.

(i) The Indian Meteorological Department (IMD) issued an alert predicting heavy rainfall in Goa and Maharashtra over the next few days in July. (Source: IMD Weather Report, July 23, 2024)

- a) Name the winds which bring rainfall to the above-mentioned states. [2]
b) Why does Goa experience more rainfall than the Deccan Plateau? [2]

(ii) "India gets abundant rainfall and still is a thirsty land". Justify this statement giving two reasons. [3]

(iii) Give a reason for each of the following:

- a) Kolkata experiences heavier rainfall than Patna.
b) Tourists do not carry woollens when they visit Kochi in the winter season.
c) Nainital experiences lower temperature than Lucknow during the summer season.

(iv) Study the climatic data given below and answer questions that follow:

Month	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
Temp(Oc)	25.0	25.5	26.3	27.1	30.0	34.2	33.8	32.5	30.3	28.4	27.0	25.6
Rainfall(Cm)	2.4	2.1	15.0	2.4	0.1	11.0	9.3	7.2	4.0	9.4	2.5	0.1

- a) Calculate the annual range of temperature of the region.
- b) What is the annual rainfall of the region?
- c) Does the above station have a coastal or interior location. Justify your answer.

[3]

Question 5

(i) A group of students from Uttarakhand went for an Educational Trip to Maharashtra. They stayed in a farmhouse and did a study of the soil, its characteristics and the different types of crops grown there. They prepared a detailed report about the type of soil they studied in Maharashtra.

- a) Identify the soil the students studied. Also name its parent rock.
- b) State two unique characteristics of the above mentioned soil.

[2]

(ii) Differentiate between the alluvial soil of the northern plains and alluvial Soil on the coastal plains of India.

[2]

(iii) Name the soil with which the following terms are associated:

[3]

- a) Humus
- b) Leaching
- c) In-situ

(iv) With reference to Red Soil, answer the following:

[3]

- a) How is it formed?
- b) Why is it good for Dry farming
- c) Name any two areas where it is found.

Question 6.

(i) In many parts of the world, man has disturbed the ecological balance. The factors responsible are deprivation of natural habitat and indiscriminate killing and hunting of animals. Many birds and animals face the danger of extinction today. Many programs Like social forestry and Van Mahotasha should be popularized at regional and Community levels to spread awareness.

- a) State the human activities responsible for the loss of forest cover in India.
- b) How do programs like Van Mahotasha and social forestry help restore ecological balance.

[2]

(ii) Mention any two characteristics of the Tropical Rain Forests that are a hindrance for its utilisation for commercial purposes.

[2]

(iii) Give a geographical reason for each of the following.

[3]

- a) Tropical deciduous forests look bare during summer season.
- b) Mountain forests have mixed vegetation.
- c) Trees of the desert vegetation have small, waxy leaves.

(iv) Mention any three ways in which the forests play an important role in the economic development of our country.

[3]

Question 7.

(i) 'Irrigation is Necessary despite the Monsoons'. Justify the statement giving two reasons.

[2]

(ii) Mention any two reasons why tank irrigation is mainly used in Karnataka and Andhra Pradesh.

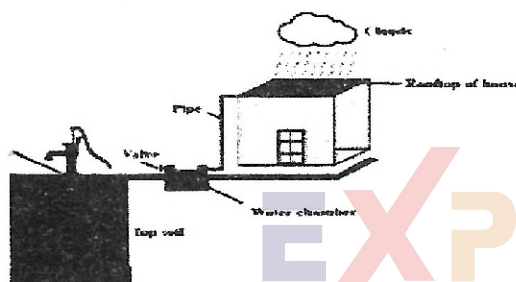
[2]

(iii) Give a reason for each of the following:

- a) Tube wells are the preferred means of irrigation over surface wells.
- b) Canal irrigation often leads to soil effervescence.
- c) Drip irrigation is becoming popular in India.

[3]

(iv) Study the given picture and answer the following questions:



- a) What type of mechanism does the picture represent? What is it used for?
- b) Explain the objectives using this mechanism in India.

[3]

[3]



Question 8.

(i) Although very expensive mode of transport, Swaraj always travels by airplane. What benefit does he find in aerial mode of transport? [2]

(ii) Name the following:

a) A major port on the Eastern coast of India.

b) The Expressway connecting Srinagar with Kanyakumari. [2]

(iii) Mention two reasons why more people use Railways rather than Airways. Name the three gauges on which the trains run in India. [3]

(iv) A public school in Hyderabad had a school trip to Manali, Ayodhya and Rishikesh. 20 students along with two teachers went by train to Delhi. From Delhi they travelled by bus and inland waterways to reach different destinations. One of the students Heena was surprised to see the well-developed inland waterways which she had never come across in her state. She asked her teacher the reason behind it.

a) What two reasons that must have been provided by the teacher to Heena?

b) State the reasons why Heena came across very few railway routes while she was in Manali? [3]

Question 9.

(i) What is the need of waste Management in large metropolitan cities. [2]

(ii) What is meant by Open Dumping of Waste? Why is open dumping Not considered as an environmental friendly method of Waste Disposal. [2]

(iii) Identify the Correct Waste Management practice for each of the following:

a) Converting vegetable peels and garden waste into compost.

b) Carrying a cloth bag instead of using a plastic bag.

c) Donating old clothes to poor people. [3]

(iv) India's waste management problem has increased with the growing population and urbanization with tons of waste still ending up in landfills each year and leaking into the environment. (Source: Article by Bruna Alves, February 28, 2024)

a) Mention any two consequences of waste accumulation.

b) What happens when wastewater leaks into surrounding areas? [3]