

QB365 Question Paper Software
12th Standard - Biology
Organisms and Populations Case Study Questions

Exam Time: 00:30 Hrs

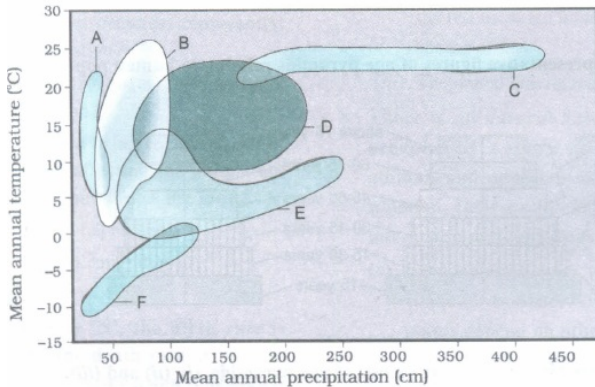
Date: 2025-10-14

Total Marks: 8

Questions:

Case Study Questions

1. The graph given below shows the distribution of the major biomes of the world.



Answer the following questions based on the graph.

- Identify the biomes A, D, E, F.
- Which of the biomes shows the maximum range of
 - Mean annual precipitation
 - Mean annual temperature?

2. Read the following and answer the questions given below:

Unlike animals, plants cannot runaway for their defence, so, they have evolved on surprising variety of morphological and chemical defence against the herbivores. Thorns are the most common physical means of defence. Many plants secrete and store chemicals that make herbivore sick when they are eaten, inhibit feeding or digestion, disrupt its reproduction or even kill it. Some plants produce highly poisonous chemicals and that is why no cattle or goats browse on those plants. A large variety of chemical substances that we extract from plants on a commercial scale are produced by them actually as defence against grazer and browser.

(i) Why we never see cattle or goats browsing on weed Calotropis?

(a) It produces highly poisonous tannins **(b) It produces quinine which is bitter in taste.**

(c) It produces poisonous cardiac glycosides. **(d) It bears prickles.**

(ii) Which of the following is most likely to sick by consuming chemicals produced by plants?

(a) Frog (b) Goat (c) Human (d) Pigeon

(iii) Plant evolve different morphological and chemical defences against

(a) prey (b) predator (c) commensalism (d) mutualism

(iv) **Assertion:** Some plant functions as predator in nature.

Reason: Phytophagous insects feed on plant sap.

(a) Both A and R are true and R is the correct explanation of A

(b) Both A and R are true, but R is not the correct explanation of A

(c) A is true, but R is false

(d) Both A and R are false

Answers Key:

Case Study Questions

1. (a) A ~ Desert,
D - Temperate forest
E - Coniferous forest
F - Arctic and Alpine tundra.
(b) (i) -Tropical forest
(ii) - Grassland.
2. (i) **(c)**
(ii) **(b)**
(iii) **(b)**
(iv) **(b)**

QB365 Question Paper Software