

Note: Time allowed for Section – B and Section – C is 2 Hours and 45 minutes.

Q-II Answer any EIGHT parts. Each part carries FOUR marks.

Section – B

Marks: 32

1. Differentiate between the terms "respiration" and "breathing".
2. What are the different substances which plants excrete?
3. Define dialysis. Relate the function of a dialyzer with that of the kidney.
4. Discuss the dual function of human ear.
5. Differentiate between nerve and neuron.
6. What is cartilage? Write different types of cartilage.
7. Write the adaptations of insect pollinated flowers.
8. Describe any four sources of variation.
9. What do you mean by conservation of nature? Write methods for the conservation of nature.
10. Write any four objectives of genetic engineering.
11. Differentiate between vaccines and antibiotics.

Section – C

Marks: 21

Note: Attempt any THREE questions. All questions carry equal marks.

- Q-III (a) What is nephron? Write the role of nephron in urine formation. (4)
- (b) Draw label diagram of human respiratory system. (3)
- Q-IV (a) What is chemical coordination? Discuss role of pancreas in chemical coordination. (4)
- (b) Discuss three types of arthritis. (3)
- Q-V (a) Define seed germination. Explain two types of seed germination. (4)
- (b) Differentiate between chromosomes and chromatin. (3)
- Q-VI (a) Define ecosystem. Discuss biotic components of ecosystem. (4)
- (b) Write down how the following products are developed through fermentation: (3)
- (i) Yogurt
 - (ii) Bread
 - (iii) Cheese