

SECTION - B (SHORT ANSWER)

Note: Answer any EIGHT of the following questions. Each question carries 02 marks.

- Q.2 Distinguish between any ONE of the following.
- Asexual and Sexual Reproduction
 - Lamarckism and Darwinism
- Q.3 Why excreting Ammonia is typically associated with freshwater inhabiting organisms?
- Q.4 Osteoporosis mainly affects female, why?
- Q.5 Under strenuous exercise conditions, why skeletal muscles undergo fatigue?
- Q.6 What is "Emergency Hormone"? Why it is called so?
- Q.7 What are vestigial organs? Give four examples.
- Q.8 What do you understand by the term "endangered species"? Give any four examples from Pakistan.
- Q.9 Define any TWO of the following.
- Protonephridia
 - Restriction Enzyme
 - Resting Membrane Potential
 - Fossil Fuel
- Q.10 What is "Global Warming"? How it affecting living organisms?
- Q.11 How pyrexia helps in combating pathogenic microorganisms?
- Q.12 Differentiate between "Pivot Joint" and "Ball and Socket Joint".
- Q.13 Cleavage in chick is "Discoidal Type", why?

SECTION - C (DESCRIPTIVE ANSWER)

Note: Answer any ONE of the following questions. Each question carries 10 (6 + 4) marks.

- Q.14 (a) Discuss the structure of skeletal muscle.
(b) Explain how a hormone signals its target cell.
- Q.15 (a) State and explain the structure of the chick's egg and process of cleavage it goes through after fertilization.
(b) How biotechnology is helpful in agriculture?