



THE ANSWERS MUST BE ATTEMPTED ON THE ANSWER SHEET PROVIDED

Q.1. Answer the following short questions: (15x2=30)

- i. Do all arteries carry oxygen-rich blood and all veins carry oxygen-poor blood? Explain.
- ii. Define metamorphosis.
- iii. Write about excretion in plants.
- iv. What is the Monogastric digestive system?
- v. Define the biogeochemical cycle.
- vi. What is the lymphatic system, and how is it related to the circulatory system?
- vii. Write about global warming.
- viii. What is social interaction?
- ix. Name two commonly used vectors in genetic engineering.
- x. Write about the ecosystem and its components.
- xi. What are Paracytic and Diacytic stomata?
- xii. Write about Environmental conservation?
- xiii. Write functions of the parathyroid gland.
- xiv. What are innate and passive immunity?
- xv. Write about Diffusion and Osmosis?

Q.2. Answer the following questions.

- 1 (a): Describe the structure and function of human heart. 6
- (b): What would happen to this ecosystem if the forest were destroyed? 4
- 2 (a): Write in detail about the CNS and structure of the brain. 6
- (b): Draw and describe Water cycle? 4
- 3 (a): Write in detail about Structure and function of DNA. 6
- (b): Write in detail about Homeostasis and negative feedback mechanism. 4