860795

BIOLOGY

Paper-II

Time: 3 Hours

Full Marks: 100

Insturctions: (1) Answer any five questions. (2) The figures in the right-hand margin indicate full marks for the questions.

- 1. Describe the mechanism of reflex action. How does it differ from involuntary (a) actions? 10
 - Describe the mechanism in human beings for getting rid of nitrogenous waste from (b)their body. 10
- How do plants transport water and minerals from the soil and the products of metabolic 2. process to different parts of their body? 10+10=20
- 3. Differentiate the following with suitable examples : 5×4=20
 - Autotrophic nutrition and Heterotrophic nutrition (a)
 - (b) Binary fission and Multiple fission
 - Mariculture and Aquaculture (c)
 - Acquired traits and Inherited traits (d)

4. Describe the sexual mode of reproduction in flowering plants with suitable diagrams. 20

- 5. Write notes on the following :
 - Tropism in plants (a)
 - (b) Plant growth hormones
 - Failure of fertilization of egg in woman (c)
 - Five kingdom classification of organisms (d)
- Justify the statement that 'very dissimilar looking structures evolved from a common ancestral 6. design' with a suitable textbook example of artificial selection. 20
- 7. Write notes on any two of the following :
 - Formation of fossils (a)
 - (b) Structure of the human eye
 - (c) Water cycle in nature
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 $5 \times 4 = 20$

 $10 \times 2 = 20$

8. Write brief notes on any five of the following:

- (a) The contribution of Carl Von Linne
- (b) Tyndall effect
- (c) The experiment of Stanley Miller and Harold Urey

- (d) Manure and fertilizers
- (e) Nervous tissue
- (f) Osmosis