

AQ - 820

First Semester M. Sc. I. (CBCS) Examination

ZOOLOGY

Paper - II

(Animal Structure and Function - Chordata)

P. Pages : 3

Time : Three Hours]

[Max. Marks : 80

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- Note :** (1) All questions are compulsory.
(2) All questions carry equal marks.
(3) Draw well labelled diagram wherever necessary.

1. Describe in detail operative principles of ICZN.

OR

Write in detail different types of taxonomic keys with their merits and demerits. 16

2. Explain the followings :—
- (a) Functions of Skin.
 - (b) Visceral skeleton in Fishes.
 - (c) Autostylic jaw suspensorium.
 - (d) Digestive system of Amphioxus.

OR

- (e) Structure of mammalian skin.
- (f) Liver in mammal.
- (g) Endoskeleton in Amphioxus.
- (h) Structure of tooth in mammals. 16

3. Give an account of the followings :—

- (i) Gills in Fishes.
- (j) Functional organization of mammalian lung.
- (k) Haemopoiesis.
- (l) Larynx.

OR

- (m) Functions of Blood.
- (n) Exchange of gases in Lungs of mammal.
- (o) Swim bladder in Fishes.
- (p) Lymph organs. 16

4. Describe archinephros, pronephros, mesonephros and metanephros in vertebrates.

OR

Describe in detail osmoregulation in freshwater and marine water fishes. 16

5. Explain the followings :—

- (q) Causes and significance of migration in birds.
- (r) Adaptive radiation in mammals.
- (s) Electoreception.
- (t) Bat Echolocation.

OR

- (u) Anadromous and caladromous migration in Fishes.
- (v) Lateral line system in Fishes.
- (w) Aquatic adaptations in mammals.
- (x) Morphological adaptations for echolocation. 16

