

M.Sc. Semester-I (CBCS Scheme) Examination
ZOOLOGY
ANIMAL STRUCTURE AND FUNCTION (CHORDATA)
Paper-II

Time : Three Hours]

[Maximum Marks : 80

N.B.:— (1) All questions are compulsory.

(2) All questions carry equal marks.

(3) Draw well labelled diagram wherever necessary.

1. Describe the following :

- (a) Postzygotic reproductive isolation
- (b) Formation of scientific names of various taxa
- (c) Taxonomic procedure for preservation
- (d) Taxonomic Keys

OR

- (e) ICZN
- (f) Taxonomic categories
- (g) Taxonomic characters
- (h) Biological mechanism of genetic incompatibility.

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2. Write in detail Jaw Suspensorium in vertebrates.

OR

Describe structure of tooth and dentition in mammalia.

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3. Explain gills in fishes and mechanism of gill respiration.

OR

Explain blood composition and Haemopoiesis.

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4. Explain the following :

- (i) Excretory Products
- (j) Mesonephros kidney
- (k) Spinal Cord
- (l) Organ of Jacobson

OR

(m) Uriniferous tubule in mammals

(n) Cerebrum of Pisces

(o) Organ of balance

(p) Taste buds.

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5. Describe the following :

(q) Morphological adaptations for echolocation

(r) Significance of lateral line system in fishes

(s) Longitudinal and Latitudinal migration in Birds

(t) Adaptive radiation for aquatic life in mammals

OR

(u) Significance of Electoreception

(v) Catadromous migration

(w) Flight adaptations in mammals

(x) Echolocation

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