

Total No. of Printed Pages: 03

SUBJECT CODE NO: - FF-6504
FACULTY OF SCIENCE AND TECHNOLOGY
M.Sc. (Sem-I) (Zoology)
Examination January-2023
Biosystematics and Animal Diversity ZOO-101

[Time: 3:00 Hours]

[Max. Marks: 80]

Please check whether you have got the right question paper.

N. B

- 1) Question paper is divided in Part A, Part B.
- 2) Part A is compulsory.
- 3) Attempt any five questions from the Part B .
- 4) Draw well labelled diagrams wherever necessary.

PART A

Q1 Attempt the following multiple choice questions.

20

1. The correct sequence of taxa is
 - a) Class-order-family-genus-species
 - b) Class-order-tribe-family-genus-species
 - c) Phylum-order-class-genus
 - d) Phylum-tribe-class-order-genus-species
2. In year International congress of zoology organized an International commission on zological Nomenclature to formulate a set of rules.
 - a) 1964
 - b) 1984
 - c) 1865
 - d) 1895
3. Ichthyology is the study of
 - a) Fishes
 - b) Viruses
 - c) Mammals
 - d) Amphibians

4. Who is known as father of Biological Taxonomy
 - a) Otto Brulfels
 - b) Mendel
 - c) Cesalloino
 - d) Carl Linnqueus
5. Phylogenetic tree that represents evolutionary time through its branch spans.
 - a) Phylogram
 - b) Chronogram
 - c) Dendrogram
 - d) Cladogram
6. The primary grouping of Protozoa is based upon them
 - a) Feeding habits
 - b) Mode of reproduction
 - c) Mode of locomotion
 - d) Mode of nutrition
7. Protozoa were first discovered by
 - a) Pasteur
 - b) Leeuwenhook
 - c) Drarwin
 - d) Kudo
8. A phylogenetic tree is
 - a) The proposed ancestor of all tree species
 - b) A key for the identification of related organisms
 - c) A diagram of the evolutionary relationships between organism
 - d) The genome of a tree species

9. The chemoreceptor found in gastropod molluscs is

- a) Crystalline style
- b) Radula
- c) Osphradium
- d) Ctenidium

10. Phylum 'ctenophora' is known as

- a) Barrel-jellyfish
- b) Bar moon-jelly
- c) Comb-jellies
- d) swimming

PART B

Any five

- | | |
|--|----|
| Q2 Explain the origin of tetrapod. | 12 |
| Q3 Give the general characters of Hemichorda & classify. | 12 |
| Q4 What is phylogeny three domain concept in systematics explain with example. | 12 |
| Q5 Write an essay on ethics in taxonomy. | 12 |
| Q6 Write the origin of reptiles and its adaptive radiation. | 12 |
| Q7 Give an account on modifications for flight in birds. | 12 |
| Q8 Note on (any two) | 12 |
| a) chemotaxonomy | |
| b) phylogenetic trees | |
| c) red queen hypothesis | |