

2M/ZOO-150 (Th) Syllabus-2023

2 0 2 5

(May-June)

FYUP : 2nd Semester Examination

ZOOLOGY

(Major)

(Functional and Comparative Anatomy)

(ZOO-150)

(Theory)

Marks : 56

Time : 3 hours

*The figures in the margin indicate full marks
for the questions*

Answer Question No. **1** which is compulsory and
any **four** from the rest

1. Write notes on any *three* of the following :

4×3=12

(a) Skeletal system in Porifera

(b) Types of fins in fishes

(c) The different modes of nutrition in
Protozoa

(2)

- (d) Affinities of monotremes
- (e) Atoll and barrier reef
2. Compare the modes of locomotion in the phylum Protozoa. Describe the most widely accepted theory that explains locomotion in *Amoeba*.
6+5=11
3. Give an account of the different canal systems found in the phylum Porifera. Add a note on the significance of the canal systems.
9+2=11
4. Describe the process of torsion in gastropods with the help of suitable diagrams.
8+3=11
5. Define retrogressive metamorphosis. Describe retrogressive metamorphosis with the help of a suitable example.
2+9=11
6. Elucidate the respiratory systems in phylum Arthropoda.
11
7. Write a comparative account on flight and flightless birds.
11

(3)

8. Write short notes on any two of the following :
5½×2=11
- (a) General functions and types of accessory respiratory organs in fishes
- (b) Comparative account of the morphological features of the three orders in Amphibia
- (c) Affinities of *Balanoglossus*
- (d) Biting mechanism of snakes
