

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

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(May-June)

FYUP : 2nd Semester Examination

ZOOLOGY

(Minor)

(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 in brief on any *three* of the following :

4×3=12

- (a) Spicules in sponges
- (b) Coral reefs
- (c) Scales in fishes
- (d) Nephridia in Annelida
- (e) Affinities of marsupials

2. Give an account on the different types of skeletal system found in sponges with suitable diagrams. 8+3=11
3. Define polymorphism. Describe polymorphism in Siphonophora with the help of suitable diagrams. Add a note on the significance of polymorphism. 2+7+2=11
4. What are accessory respiratory organs? Discuss the different types of accessory respiratory organs found in fishes with labelled diagrams. 2+7+2=11
5. Discuss dentition in mammals with the help of examples and suitable diagrams. 7+4=11
6. Describe in detail the comparative anatomy of heart in vertebrates. 11
7. Give a comparative anatomy of kidney in vertebrates. 11
8. Write short notes on any *two* of the following : 5½×2=11
 - (a) Venomous and non-venomous snakes
 - (b) Affinities of *Balanoglossus*
 - (c) Morphological features of Caudata
 - (d) Torsion in Gastropoda.

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