

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

2026

(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/Answer any four of the
following : 3×4=12**
 - (a) Types of fins in fish**
 - (b) Calcareous spicules**
 - (c) Three differences between Flight and
Flightless birds**
 - (d) Three differences between Coelomo-
ducts and Nephridia**

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(Turn Over)

- (e) Comment only on the madreporite in the water vascular systems of Asteroidea, Ophiuroidea, Holothuroidea and Crinoidea.
- (f) Three contrasting features between *Petromyzon* and *Myxine*
2. Define retrogressive metamorphosis. Describe retrogressive metamorphosis in *Ascidia* with the help of suitable diagram. $1+7+3=11$
3. Define polymorphism. Describe polymorphism in Siphonophora with the help of suitable diagrams. Add a note on the significance of polymorphism. $1+6+2+2=11$
4. Compare and contrast the diagnostic characteristics used to distinguish between Venomous and Non-venomous snakes. Provide a detailed account of the biting mechanism in snakes. $6+5=11$
5. Describe in detail the comparative anatomy of heart in vertebrates with suitable illustrations. $9+2=11$
6. Discuss dentition in mammals with the help of examples and suitable diagrams. $7+4=11$
7. Describe the process of torsion in gastropods with suitable diagrams. $8+3=11$

8. Write short notes on any *two* of the following :

5½×2=11

- (a) Affinities of *Balanoglossus*
- (b) Locomotion in Protozoa
- (c) Accessory respiratory organs in fishes
- (d) Affinities of Monotremata
