

4/ZOO-251 (Th) Syllabus-2023

2 0 2 5

(May-June)

FYUP : 4th Semester Examination

ZOOLOGY

**(Aquatic Biology, Wildlife Biology and
Conservation Biology)**

(ZOO-251)

(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) Littoral and limnetic zones of a pond

(b) Effects of pH and salinity on marine
environment

(2)

- (c) Plankton, neuston and nekton of lotic ecosystem
- (d) Categories in the IUCN Red List
- (e) *Ex situ* and *In situ* conservation
2. Describe the stratification of a marine ecosystem based on pelagic zones and benthic zones. 5+6=11
3. What is wildlife conservation? Why is wildlife conservation important? Elaborate on the types of wildlife conservation. 1+2+8=11
4. Define lentic and lotic ecosystems. Elaborate on the different zones of a lentic ecosystem giving examples of organisms found in each zone. 2+9=11
5. Explain the physical characteristics of a marine ecosystem. 11
- Or
- Explain the chemical characteristics of freshwater environment.
6. Elaborate on the different kinds of marine communities, giving examples of different species dominant in each community and the significance of each community. 4+4+3=11

(3)

7. (a) Define and give examples of keystone, flagship and umbrella species. 6
- (b) What are the different causes of wildlife depletion? 5
8. Write short notes on any two of the following : $5\frac{1}{2} \times 2 = 11$
- (a) Biodiversity hotspots in India
- (b) Types of *In situ* conservation corridors
- (c) Types of estuaries
- (d) Key features of the Wildlife Protection (Amendment) Act, 2006
