

4/ZOO-252(Th) Syllabus-2023

2026

(May-June)

FYUP : 4th Semester Examination

ZOOLOGY

(Ecology and Environmental Biology)

(ZOO-252)

(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 *four* of the following :
3×4=12

(a) Ecological pyramids

(b) Food chain and food web

(c) Acid rain

(2)

- (d) Ozone depletion
- (e) Population growth curves
- (f) Species diversity
2. (a) Explain the morphological and physiological adaptations to light. 7
- (b) Write on ecotone and edge effect. 4
3. What are limiting factors? Explain Liebig's law of minimum and Shelford's law of tolerance with suitable examples. 2+9=11
4. What is ecological succession? Explain the process of succession in lithosere using proper examples. 2+7+2=11
5. Define pollution. Give an account on the causes, sources, consequences and management of air pollution. 2+9=11
6. What is climate change? Explain the concept of global warming. Define biomagnification citing examples. 4+4+3=11
7. Define community in ecological sense. Describe the characteristics, structure and composition of a biotic community. 1+10=11

(3)

8. Write short notes on any two of the following : $5\frac{1}{2} \times 2 = 11$
- (a) Ecotoxicology
- (b) Biological indicators
- (c) Ecological niche
- (d) Phosphorus cycle
