

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

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(Turn Over)

- (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. $1+10=11$

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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

Marks : 36

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.

9. Write notes on any four of the following

$3 \times 4 = 12$

- (a) Ecological pyramids
- (b) Food chain and food web
- (c) Acid rain