4/ZOO-252 (Th) Syllabus-2023

2025

(May-June)

FYUP: 4th Semester Examination

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(Ecology and Environmental Biology)

(ZOO-252)
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Marks: 56 and no simpo pod rea add example officials (4).

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: $4\times3=12$
 - (a) Levels of organization in the biosphere
 - (b) Edge effect with examples

- Survivorship curves
- (d) Regulation of population density
- (e) Biomagnification
- 2. What are limiting factors? Explain Liebig's law of minimum and Shelford's law of tolerance with examples. $2+4\frac{1}{2}+4\frac{1}{2}=11$
- 3. (a) Describe the various morphological and physiological adaptations to temperature. 7
 - (b) Briefly discuss the carbon cycle in the environment.
- 4. Enumerate on the various types of interspecific species interactions with suitable examples. 11
- 5. What is ecological succession? Explain the process of succession in hydrosere with suitable illustration. 2+7+2=11
- 6. Define toxicology. Classify toxicants and briefly describe the applications of toxicology. 1+6+4=11

- 7. Write short notes on any two of the following: 51/2×2=11
 - (a) k- and r-selection
 - Species richness and species diversity
 - Acid rain
 - Renewable and non-renewable resources
