

4/ZOO-253 (Th) Syllabus-2023

2 0 2 5

(May-June)

FYUP : 4th Semester Examination

ZOOLOGY

(Parasitology, Entomology and Economic Zoology)

(ZOO-253)

(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 :

$4 \times 3 = 12$

(a) Host-parasite relationship

(b) Economic importance of pisciculture

(2)

- (c) Importance of insects in ecosystem
- (d) Pathogenicity of *Plasmodium*
- (e) Beneficial insects
2. Describe the life cycle of *Ancylostoma duodenale*. Add a note on its pathogenicity. 7+4=11
3. Define metamorphosis. Describe the different types of metamorphosis in insects. 2+9=11
4. With the help of a labelled diagram, describe the digestive system of cockroach. 2+9=11
5. Name the common species of honeybees in India. Describe the modern method of apiculture with the help of a labelled diagram. 2+7+2=11
6. (a) Describe the process of composite fish culture. 5
- (b) Briefly describe the steps involved in induced breeding. 6
7. Describe the morphological and physiological adaptations of parasitic helminths. $5\frac{1}{2}+5\frac{1}{2}=11$

(3)

8. Write short notes on any two of the following : $5\frac{1}{2}\times 2=11$
- (a) External feature of cockroach
- (b) Products of sericulture and its economic importance
- (c) Symbiosis with suitable examples
- (d) Economic importance of honeybee
