

4/ZOO-253(Th) Syllabus-2023

2026

(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 and any four from the rest.

1. Write notes on any four of the following :

3×4=12

- (a) Significance of parasitism in human health**
- (b) Impact of arthropod parasites on human health**
- (c) Economic importance of pisciculture**
- (d) Reproductive system of male insect**

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(Turn Over)

(2)

- (e) General characteristics of insects
- (f) Common honeybee species in India
2. (a) Describe with examples, the different types of host in a host-parasite relationship. 3
- (b) Describe with the help of a diagram, the life cycle of *Plasmodium* sp. in the definitive host. Add a note on its pathogenicity. $2+4+2=8$
3. With a proper diagram, explain the tracheal system of cockroach. Explain the mechanism of exchange of respiratory gases in a tracheal system. $2+5+4=11$
4. With the help of diagram, describe the life cycle of *Bombyx mori*. Add a note on the economic importance of sericulture. $2+5+4=11$
5. Explain the mode of transmission of *Pediculus humanus capitis*. Discuss the impact of pediculosis capitis on human health. Add a note on control measures. $4+3\frac{1}{2}+3\frac{1}{2}=11$
6. Describe the major habitat types in which insects live. Explain how these insects are able to adapt to such diverse environment. $7+4=11$
7. Define integrated fish farming. Describe the different methods of integrated fish farming you have studied. $2+9=11$

(3)

8. Write short notes on any *two* of the following :

5½×2=11

- (a) Morphology of *Fasciola gigantica*
- (b) Impact of pests on agriculture
- (c) Inland fisheries in India
- (d) Social organization in honeybees
