

6/ZOO-352(Th) Syllabus-2023

2026

(May-June)

FYUP : 6th Semester Examination

ZOOLOGY

**(Developmental Biology and
Reproductive Biology)**

(ZOO-352)

(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) Cell lineage

(b) Concept of organizer

(c) Insect hormones in metamorphosis

(d) Epimorphosis in *Planaria*

26D/1888

(Turn Over)

(e) Anatomy of the human female reproductive system

(f) Causes of infertility in males and females

2. Describe the life cycle of *Dictyostelium* highlighting key aspects of cell aggregation, communication and differentiation during its development. 5+6=11
3. Discuss the organogenesis of the vertebrate eye with suitable diagrams. 9+2=11
4. What is metamorphosis? Give an account of the morphological and physiological changes that occur during metamorphosis of frog. 1+5+5=11
5. With the help of suitable illustrations, explain the different types of placenta in mammals on the basis of distribution of villi and the involvement of embryonic tissue. 2+3+6=11
6. What are reproductive cycles? Explain the various physiological changes that take place during the different phases of the menstrual cycle in mammals. 1+10=11
7. What are assisted reproductive technologies? Describe in detail the process of in vitro fertilization and embryo transfer technology in humans. 2+9=11

(3)

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

5½×2=11

- (a) Fate map of frog embryo
- (b) Teratogenesis
- (c) Theories of ageing
- (d) Contraceptive methods in males and females
