

# 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*

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- (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 :  $5\frac{1}{2}\times 2=11$
- (a) Fate map of frog embryo
- (b) Teratogenesis
- (c) Theories of ageing
- (d) Contraceptive methods in males and females

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