

Roll No.....

Total No. of Printed Pages : 4

Code No. : B02/205

Code No. : B02/205

Second Semester Online Examination, May-June, 2022

M. Sc. ZOOLOGY

Paper - II

**REPRODUCTIVE BIOLOGY**

Time : Three Hours ]

[Maximum Marks : 80

*Note : Part A and B of each question in each unit consist of 'very short answer type question' which are to be answered in one or two sentences. Part C 'Short answer type' and D 'Long answer type' of each question should be answered within the word limit mentioned.*

**UNIT-I**

1. (A) What is the function of leydig cells ? 2
- (B) What is spermeogenesis ? 2
- (C) Draw a labeled diagram of T. S. of testis.

*(word limit 200-250) 4*

**OR**

Describe capiciation.

- (D) Describe the process of spermatogenesis.  
*(word limit 400-450) 12*

**OR**

Explain the hormonal regulation of spermatogenesis.

**P.T.O.**

**UNIT-II**

2. (A) Which hormone is secreted from stroma of ovary. 2
- (B) Draw a labeled diagram of Graffian follicle. 2
- (C) Discuss the role of L.H. in ovulation.

*(word limit 200-250) 4*

**OR**

Write the name of pregnancy hormone.

- (D) Describe the menstrual cycle and its hormonal regulation.

*(word limit 400-450) 12*

**OR**

Explain the process of oogenesis and write the role of polar bodies.

**UNIT-III**

3. (A) What is acrosomal reaction ? 2
- (B) What is cleavage ? 2
- (C) What is formative movement ?

*(word limit 200-250) 4*

**[ 2 ]**

**Code No. : B02/205**

**OR**

Explain the fertilizing-antifertilizin reaction.

- (D) Describe the future of three germinal layers (organogenesis)

*(word limit 400-450)* **12**

**OR**

Describe the process of fertilization.

**UNIT-IV**

4. (A) A function of allantoises. **2**  
(B) Define retrogressive metamorphosis. **2**  
(C) Explain regeneration.

*(word limit 200-250)* **4**

**OR**

Write the functions of foetal membranes.

- (D) Describe the types of placenta in Mammalia with suitable example.

*(word limits 400-450)* **12**

[ 3 ]

**P.T.O.**

**Code No. : B02/205**

**OR**

Describe the metamorphosis with example of frog.

□ □ □ □ □ d □ □ □ □ □

[ 4 ]

**4/25**