

ZOOLOGY (Hons)

IVth SEMESTER

PAPER – M401

Submission Date: 7/8/20

Max. Marks = 50

Section A →

1*5 = 5

Q 1. Define Fertilisation?

1

Q 2. Centrolecithal eggs are found in?

1

Q 3. Define Morula ?

1

Q 4. What is polyspermy-block?

1

Q 5. What is acrosomal reaction?

1

Section B →

2*5 = 10

Q 6. Distinguish between :-

(a) Blastula and Gastrula

2

(b) Holoblastic and Meroblastic Cleavage

2

Q 7. Write the function of zona-pellucida ?

2

Q 8. Define vitellogenesis ? Give example in which type of animal it takes place

2

Q 9. What is invagination and delemination?

2

Section C →

3*5=15

Q 10. Write short notes on different type of animal eggs?

5

Q 11. Define Parthenogenesis? What are the different type of parthenogenesis? Write the significance of parthenogenesis.

2+1+2=5

Q 12. What is Grey Crescent ? Why grey crescent is important in amphibian gastrulation?

2+3=5

Section D →

Q 13. What is Placenta? Give the various types of placenta based on distribution of villi giving examples and diagrams? 10

OR

Q. Write Short note on :→

(a) oogenesis? 5

(b) Spermatogenesis. 5

Q 14. Describe with suitable diagram early development in frog upto completion of Gastrulation ? 10

OR

Q. Describe the development of Eye in vertebrates using suitable diagram ? 10