

ZOOLOGY (REGULAR)

IIND SEMESTER

Submission Date: 7/8/20

Max. Marks = 50

Section A →

1*5 = 5

- Q 1. Name the gland which secretes milk in Pigeon? 1
- Q 2. Gill covering of osteichthyes is also known as _____? 1
- Q 3. What is fertilisation? 1
- Q 4. Mammary glands of human are modified _____glands? 1
- Q 5. Define metanephric kidney? 1

Section B →

2*5 = 10

- Q 6. What are the different types of polyspermy blocks? 2
- Q 7. Define spermatogenesis? 2
- Q 8. What are aortic arches? 2
- Q 9. What are sensory organs? Give 2 example? 1+1=2
- Q 10. Define oogenesis? 2

Section C →

3*5=15

- Q 11. Differentiate between [Give examples of each] 5
- (a) Gills and Lungs
- (b) Mesonephric and metanephric kidneys
- Q 12. Draw a well labelled diagram of fate map of frog and explain the early embryonic development in frog? 5
- Q 13. Explain the neurulation in frog embryo? 5

Section D →

10*2=20

Q 14. Write all you know about the evolution of heart in vertebrates?

10

OR

Q. (a) Compare the brain of aves and mammals?

6

(b) Make a well labelled diagram of eyes of mammals?

4

Q 15. Write the mechanism of fertilisation? Explain in details the post fertilisation event?

5+5=10

OR

Q. Write short notes on :-

(a) vitellogenesis

2.5

(b) fate map

2.5

(c) pattern of cleavage

2.5

(d) Block to polyspermy

2.5