

Roll No.

Z-11-A

Total No. of Questions : 16]

[Total No. of Printed Pages : 4

11th ARF(SZ)JKUT2024-25

211-A

ZOOLOGY

(BIOLOGY)

Time : 1½ Hours]

[Maximum Marks : 35

Section-A

1 each

1. Coelenterates which exhibit metagenesis have two basic body forms called polyp and medusa. Which of the options represent their correct reproduction mode ?

- (A) ~~Polyp produces medusa asexually.~~
- (B) Medusa produces polyp asexually
- (C) Polyp produces medusa sexually
- (D) All of these

11th ARF(SZ)JKUT2024-25

211-A

Turn Over

Z-11-A

2. Age related disorder characterised by decreased bone mass emerging due to fall in estrogen level is :
- ☒ (A) Osteoporosis
- (B) Arthritis
- (C) Gout
- (D) Myasthenia gravis
3. The DNA present in chloroplast is :
- (A) Linear, Double stranded
- (B) Circular, Single stranded
- (C) Linear, Single Stranded
- ☒ (D) Circular, Double stranded
4. Lecithin, a small molecular weight organic compound found in living tissues is an example of :
- ☒ (A) Phospholipids
- (B) Glycerides
- (C) Glycoproteins
- (D) Glycolipids

5. In frog, oxygen dissolved in water can be taken by :

- (A) External nares
- (B) Spiracles
- (C) Buccal cavity
- (D) Skin

Section-B

2 each

6. How are Urochordates different from Cephalochordates ? Give *one* example of each.
7. Define Bioluminescence. Give *two* examples from ctenophores which exhibit property of bioluminescence.
8. How does temperature and pH affect enzyme activity ?
9. What are Plastids ? How is a Chromoplast different from a Leucoplast ?
10. Why is Meiosis called a reductional division ?

Section-C

3 each

11. What are Enzymes ? How are Lyases different from Ligases ? Give *one* example for each.
12. Write down the salient features of phylum Coelenterata.
13. Give the details of events which occur during interphase of a cell cycle.
14. Write a short note on oxygen dissociation curve.
15. Briefly explain the mechanism of muscle contraction.
<https://www.jkboseonline.com>

Section-L

5

16. Draw a well-labelled diagram of Human Kidney and with the help of a flow chart highlight path of urine drainage from collecting ducts to outside.

Or

Define a Neuron. Give an account on mechanism of synaptic transmission.