

Roll No.

Z-11-Y

Total No. of Questions : 16]

[Total No. of Printed Pages : 4

11th ARM(SZ)JKUT2024

1211-Y

ZOOLOGY

(BIOLOGY)

Time : 1.30 Hours]

[Maximum Marks : 35

Section-A

1 each

1. ~~/~~ Nephridia help in excretion and osmoregulation in

(A) Arthropoda

~~(B)~~ Annelida

(C) Aschelminthes

(D) Mollusca

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Turn Over

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2. The process of inspiration during breathing involves :

- ☒ (A) Contraction of diaphragm and external inter-coastal muscles
- (B) Relaxation of diaphragm and external inter-coastal muscles
- (C) Contraction of diaphragm and relaxation of external inter-coastal muscles
- (D) Relaxation of diaphragm and contraction of external inter-coastal muscles

3. is frequently observed in cells actively involved in protein synthesis and secretion.

- (A) SER
- ☒ (B) RER
- (C) Centrosome
- (D) Lysosome

4. The most abundant protein in animal world is :

- (A) Tubulin
- (B) Keratin
- (C) Globulin
- ☒ (D) Collagen

5. The frogs escape from extreme cold by taking shelter in deep burrows during winter, it is referred as :

(A) Hibernation

(B) Aestivation

(C) Diapause

(D) Leaping

Section-B

2 each

6. What are National Parks ? Give two examples from Jammu and Kashmir.

7. What is a Coelom ? Give one example each of a Pseudocoelomate and Acoelomate.

8. How does a Nucleotide differ from a Nucleoside ?

9. Mitochondria are commonly called "Power Houses" of a cell. Comment.

10. Write two events that occur in the Pachytene stage of Prophase-I.

Section-C

3 each

11. "All vertebrates are chordates but all chordates are not vertebrates". Justify the statement with examples.

12. What are Nucleic Acids ? Write down their significance.

13. Meiosis-I is often considered a complete cell division. What is the necessity of occurrence of Meiosis-II in cell cycle ?

14. Give a brief account of the countercurrent mechanism.

15. What is meant by Double Circulation ? Write its significance.

Section-D

5 each

16. What are Skeletal Muscles ? Give a detailed account on the mechanism of muscle contraction.

Or

Define a Neuron. Describe the process of generation and conduction of nerve impulse in man.