

SECOND MID TERM TEST – NOVEMBER 2024
ZOOLOGY

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CLASS : 12

TIME : 1:30 Hours

Exam No :

Marks : 35

I. Select and write the correct answer to the following questions.

8×1=8

1. Competition between species leads to
A) Extinction B) Mutation C) Amensalism D) Symbiosis
2. Higher number of vertebrae at lower temperatures that are created
A) Allen's rule B) Bergmann's rule C) Jordon's rule D) Van's Hoff's rule
3. Hibernation and aestivation is an example of which adaptation
A) structural adaptation B) Behavioural adaptation
C) Genetical adaptation D) physiological adaptation
4. Which of the following is an r-species
A) Human B) Insects C) Rhinoceros D) Whale
5. ELISA is mainly used for
A) Detection of mutations B) Detection of pathogens
C) Selecting animals having desired traits D) Selecting plants having desired traits
6. Dolly, the sheep was obtained by a technique known as
A) Cloning by gene transfer B) Cloning without the help of gametes
C) Cloning by tissue culture of somatic cells D) Cloning by nuclear transfer
7. Ability of the stem cells to differentiate into only one cell type.
A) Oligopotency B) Unipotency C) Pluripotency D) Multipotency
8. Alpha lactalbumin is a protein composed of
A) 123 amino acid and 2 di sulphide bridges B) 321 amino acid and 4 di sulphide bridges
C) 123 amino acid and 4 di sulphide bridges D) 321 amino acid and 2 di sulphide bridges

II. Answer any four questions.

4 x 2 = 8

9. Mention any 2 advantages of cloning.
10. What is mean by interferons?
11. Give short notes on stem cell bank.
12. Define Natalty.
13. What is mean by stenotherms ? Give an example.
14. What is suspend?

III. Answer any three questions.

3x3=9

15. Write any three major functions of soil.
16. Give short notes on J shaped growth form.
17. Differentiate between somatic cell gene therapy, germline gene therapy.
18. What are DNA vaccines?
19. What are the basic eligible criteria required to obtain a patent?

III. Answer any two questions.

2x5=10

20. What are the applications of PCR technique? **(OR)**
List down any five differences between r- selected and K selected species
21. Describe the adaptations of aquatic animals.

(OR)

Explain why cloning of Dolly, the sheep was such a major scientific breakthrough? TTK12-ZOO EM-SINGLE