

# SECOND MID TERM TEST - 2024

## Standard - XII

**Time : 1.30 hrs**

**ZOOLOGY**  
**Section - A**

**Marks: 50**

**I. Choose the best answer:-**

**10×1=10**

- 1) Transgenic animals are those which have
  - a) Foreign DNA in some of their cells
  - b) Foreign DNA in all their cells
  - c) Foreign RNA in some of their cells
  - d) Foreign RNA in all their cells
- 2) Dolly the sheep was obtained by a technique known as
  - a) Cloning by gene transfer
  - b) Cloning without the help of gassetes
  - c) Cloning by tissue culture of somatic cells
  - d) Cloning by nuclear transfer
- 3) GEAC stands for
  - a) Genome engineering action committee.
  - b) Ground environment action committee.
  - c) Genetic engineering approval committee.
  - d) Genetic and environment approval committee.
- 4) Birds sitting on cows to eat insects is an example of
  - a) Competition
  - b) Mutualism
  - c) Commensalism
  - d) Amensalism
- 5) Which of the following is an r-species?
  - a) Human
  - b) Insects
  - c) Rhinoceros
  - d) Whale
- 6) Movement of an organism in response to light is called \_\_\_\_
  - a) Phototaxis
  - b) Photonasty
  - c) Phototropism
  - d) Photoperiodism
- 7) The first clinical gene therapy was done for the treatment of \_\_\_\_
  - a) AIDS
  - b) Cancer
  - c) Cystic fibrosis
  - d) SCID
- 8) Organism which can survive a wide range of temperature are called \_\_\_\_
  - a) Ecto therm
  - b) Eurytherm
  - c) Endotherms
  - d) Stenotherms
- 9) Which of the following region has a maximum biodiversity?
  - a) Taiga
  - b) Tropical forest
  - c) Temperate rain forest
  - d) Mangrove
- 10) The word "niche" was first used by \_\_\_\_
  - a) Charles Elton
  - b) Van't Hoff
  - c) Bergmann
  - d) Jordon

(2)

**XII ZOOLOGY****Section - B****II. Answer any five of the following questions.****(Question no.14 is compulsory)****5×2=10**

- 11) What are transgenic animals? Give example.
- 12) What is acclimatisation?
- 13) Yeast is more suitable for production of recombinant interferons than E.Coli. Give reasons
- 14) Embryonic stem cells are immortal. Give reason.
- 15) What is Habitat?
- 16) What is Patent?
- 17) Write down any two-advantages of cloning.

**Section - C****III. Answer any five of the following. (Q.No.24 is compulsory)****5×3=15**

- 18) What are called DNA Vaccines?
- 19) Write any three properties of Soil.
- 20) Natality, Mortality - differentiate
- 21) What are called natural protein adhesives?
- 22) What are the steps involved in the production of transgenics?
- 23) What are the differences between somatic gene therapy & germ-line gene therapy?
- 24) What is totipotency?

**Section - D****IV. Answer all the questions:-****3×5=15**

- 25) a) What is PCR? Write down any 4 applications of PCR? **[or]**  
b) What are the advantages and disadvantages of animal cloning?
- 26) a) Tabulate and analysis of two species population - Interaction.  
**[or]**  
b) Explain how ADA (or) SCID can be corrected
- 27) a) List the adaptations seen in aquatic organisms. **[or]**  
b) What are the types of response to abiotic factors.

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RANI PET - DIST

