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SUBJECT CODE NO:- B-2091
FACULTY OF SCIENCE & TECHNOLOGY
B.Sc. T.Y (Sem-VI)
Examination November/December- 2022
Elective Paper
Zoology Paper-XX
Bio Technology-II

[Time: 1:30 Hours]**[Max. Marks: 50]**

Please check whether you have got the right question paper.

- N.B
1) Attempt all questions.
2) Illustrate your answer with suitable labeled diagrams.
- Q. 1 A. Describe contamination. Explain sterilization of laboratory in detail. 20
 OR
 A. What are transgenic animal? Explain nuclear transplantation in dolly sheep in detail. 20
- Q. 2 A. Define gene theory? Describe methods and applications of DNA fingerprinting. 20
 OR
 B. Short notes (any four) 20
 a) In vitro fertilization
 b) Limitations of Cell Culture
 c) Disease detection.
 d) Liver Transplantation
 e) Application of cell culture
 f) Application of agriculture biotechnology
- Q. 3 Choose the correct answer 10
1. What do you mean by sterilization?
a) Purification of products c) Elimination of contamination
b) Recovery of products d) Formulation of media

2. Agar agar is added to tissue culture media as
a) Carbon source c) Nitrogen source
b) A growth regulator d) Solidifying agent
3. Transgenic animals those which are
a) Foreign DNA in all its cell c) Foreign DNA in some of its cells
b) Foreign RNA in all its cell d) Both B&C
4. The most important advantage that retroviral vectors offer is their ability to transform their
a) Single stranded RNA genome into a double c) Both A & B
stranded DNA
b) Double stranded DNA into single stranded d) None of the above
RNA
5. Electrophoresis, a technique used in DNA fingerprinting helps to separate
a) DNA segments b) Cell from DNA c) Tissues d) RNA from DNA
6. Site directed mutagenesis
a) Oligonucleotide directed mutagenesis c) directed mutagenesis
b) Nucleotide directed mutagenesis d) PCR mutagenesis
7. The technology used for production of monoclonal antibodies is _____
a) Mass culture technology c) Suspension culture
b) Hybridoma technology d) None of these
8. Which enzyme is used to degrade starchy materials?
a) Proteases b) Amylases c) Lipases d) Nucleases

9. Embryo therapy was devised by handy side et al to cure
- a) Cystic fibrosis
 - c) Thalassemia
 - b) Haemophilia
 - d) Severe combined immunodeficiency disease
10. Which of the method is useful in treatment of cancer
- a) Ex vivo therapy
 - c) Antisense therapy
 - b) In vivo therapy
 - d) All of the above