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SUBJECT CODE NO: - SS-6715
FACULTY OF SCIENCE AND TECHNOLOGY
M.Sc. (Zoology) (Sem-III)
Examination May / June - 2023
Applied Biotechnology-I ZOO-303

[Time: 03:00 Hours]

[Max. Marks: 80]

Please check whether you have got the right question paper.

N. B

- 1) Question paper is divided in PART – A and PART – B
- 2) PART – A is compulsory.
- 3) Attempt any Five questions from the PART- B.
- 4) Draw well labelled diagram wherever necessary.

PART – A

Q.1 Attempt the following multiple questions :

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1. The reverse transcriptase PCR used in
 - a) DNA as a template to form Ss DNA
 - b) RNA as a template to form DNA
 - c) m RNA as a template to form cDNA
 - d) All of these.
2. Barophilic prokaryotes.....
 - a) Multiply in deep marine water.
 - b) Grow slowly in high alkaline lakes.
 - c) Occurs in high concentration of barium hydroxide
 - d) None of these
3. Waste removal system first adopted by.....
 - a) Paris b) Athens c) London d) Canada
4. Transgenic animal has
 - a) foreign gene b) foreign lipid
 - c) foreign protein d) foreign amino acid
5. Sequence that can function as origin of Replication are called as sequences.
 - a) Partial replicating b) Autonomously replicating
 - c) Self-replicating d) Modified replicating
6. The term genomics was coined by.....
 - a) T.H. Morgan b) Thomas Cech
 - c) Craig venter d) Thomas Roder
7. Which is the first transgenic fish used as a food?
 - a) Andi b) Polly c) Salmon d) Dolly

8. Which of the following is an example of zero – dimensional Nano structure?
 - a) Nano rods
 - b) Nano particles
 - c) Nano tubes
 - d) All of these

9. Which of the following is oldest method used to dump solid wastes?
 - a) Land fill
 - b) Ocean
 - c) River
 - d) None of these

10. In agriculture cloning to propagate plant strains is
 - a) Prohibited
 - b) Rare
 - c) Common place
 - d) None of these

PART – B
(Attempt any five)

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| Q.2 Describe the process of embryo cloning. | 12 |
| Q.3 Give an account on principles and techniques of DNA sequencing. | 12 |
| Q.4 Write mineralization process in composting. | 12 |
| Q.5 Explain Barophilic organism and their application. | 12 |
| Q.6 What are the green & Red florescence protein with example? | 12 |
| Q.7 Describe the process of transgenic sheep. | 12 |
| Q.8 Write a note on following; (Any three) | 12 |
| a) Altered fish. | |
| b) Dendrimers. | |
| c) DNA reporter. | |
| d) Vermi composting. | |