

18. (a) Discuss the importance of biofertilisers.

Or

- (b) Narrate about the sterilization of culture media and gases and its importance.

19. (a) Present a descriptive account on alcoholic beverage and its production.

Or

- (b) Explain the mechanism of enzyme action and add a note on its kinetics.

20. (a) Write an essay on the microbial production of methane.

Or

- (b) Write a descriptive account on biodegradation of xenobiotic compounds.
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Reg. No. :

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M.Sc. (CBCS) DEGREE EXAMINATION, APRIL 2013.

Fourth Semester

Zoology — Main

BIOTECHNOLOGY

(For those who joined in July 2008-2011 afterwards)

Time : Three hours

Maximum : 75 marks

PART A — (10 × 1 = 10 marks)

Answer ALL questions.

1. Synthetic oligonucleotide
2. Shuttle vector
3. Apoptosis
4. RFLP
5. RNA vaccine
6. Auto antibody
7. Biphasic system



8. Lysozyme
9. Index organisms
10. Disinfection and disinfectant

PART B — ($5 \times 5 = 25$ marks)

Answer ALL questions, choosing either (a) or (b).

11. (a) Write about the mammalian cell expression vectors.

Or

- (b) Write about the sources, recognition sequences and products of restriction enzymes.

12. (a) Describe the importance of DNA finger printing.

Or

- (b) Describe cell lines and their biotechnological importance.

13. (a) List and explain the methods of strain development.

Or

- (b) Define and describe bio-control agents with examples.

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14. (a) Present the uses of immobilized enzymes.

Or

- (b) List the advantages of SCP,

15. (a) Narrate various methods of waste water treatment process.

Or

- (b) Comment the alcohol as a source of energy.

PART C — ($5 \times 8 = 40$ marks)

Answer ALL questions, choosing either (a) or (b).

16. (a) PCR is modified as per the specific demands of the situation – Explain.

Or

- (b) Vectors are the cloning vehicles – Explain with examples.

17. (a) Expand and explain the mechanisms of IVF and its application value.

Or

- (b) Discuss the transgenic animals as ideal bioreactors with examples.

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