

6th Semester Sessional Examination 2021

Zoology

(Major)

(Biotechnology)

Paper: M-604

Full Marks: 30

Figures in margin indicates full marks for each question

All questions are compulsory

Q1. In recombinant DNA methods, the term Vector refers to (2)

- a. the enzyme that cuts DNA into restriction fragments
- b. the sticky end of a DNA fragment
- c. a plasmid used to transfer DNA into a living cell
- d. a DNA probe used to identify a particular gene

Q2. Bacteria protects themselves from viruses by fragmenting viral DNA upon entry with (2)

- a. Methylase
- b. Endonuclease
- c. Ligases
- d. Exonucleases

Q3. Sterilization of prepared culture media is done by (2)

- a. Spraying with 70% alcohol
- b. Autoclaving
- c. Dry heating
- d. Filtering or autoclaving

Q4. Following Enzyme is used in harvesting of cells while passaging (2)

- a. Ligase
- b. Trypsin
- c. Pepsin
- d. Amylase

Q5. When primary culture cells cover up all the available substrate of the flask they need immediate subculture, which is known as reaching (2)

- a. Monolayer
- b. Confluency
- c. Plateau
- d. Exponential growth

Q6. A finite cell line is (2)

- a. an immortal cell line
- b. a cell line with limited culture life span
- c. a cell line derived from transformed cells
- d. a cell line not needing sub-culture passages

Q7. Eco RI is (2)

- a. Type 1 endonuclease
- b. Type 2 endonuclease
- c. Type 3 endonuclease
- d. None of the above

Q8. Write true or False. "The primary explant technique is used to disaggregate large quantities of tissues ". (2)

Q9. What are the basic requirements for tissue culture? (7)

Q10. Give some Examples of complete culture media. (7)