

MODEL QUESTION PAPER FOR END SEMESTER EXAM
B.Sc Degree Course
(Semester-III) BTT 301 Biophysical techniques

Timer: 3hrs

Max marks: 75

Section-A (5X5=25 marks)

Attempt any Five of the following

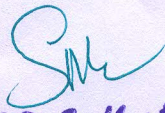
1. Principle in thin layer chromatography.
2. Iso-electric focussing.
3. Standard deviation.
4. Differential centrifugation
5. Principle in fluorimetry.
6. Units of radio activity.
7. Applications of agarose gel electrophoresis.
8. Isotope tracer studies.

Section-B (10X5=50 marks)

Attempt all the following questions

9. Explain the construction of spectrophotometer and its applications.
(OR)
10. Explain the principle, instrumentation and applications of flame photometry.
11. Explain the principle and applications related to ion exchange chromatography.
(OR)
12. How to separate lipids using GLC.
13. How to separate polypeptides using SDS-PAGE
(OR)
14. What are the factors affect the electrophoretic mobility of biomolecules during electrophoresis
15. How to measure the radioactivity using various techniques.
(OR)
16. What are the uses of Radio isotopes in medicine and biology.
17. Describe the principle and applications of density gradient centrifugation.

(OR)
18. Explain the basic concepts of Mean, Median and Mode.


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MODEL QUESTION PAPER FOR END SEMESTER EXAM
B.Sc Degree Course
(Semester-IV) BTT 401 IMMUNOLOGY

Timer: 3hrs

Max marks: 75

Section-A (5X5=25 marks)
Attempt any Five of the following

1. Innate immunity.
2. Clonal Selection theory.
3. Immunofluorescence.
4. Types of Antigens.
5. Explain the role of T-lymphocytes.
6. What is major histocompatibility complex?
7. What are recombinant vaccines?
8. Agglutination

Section-B (10X5=50 marks)
Attempt all the following questions

9. Explain organs and cells of immune system.
(OR)
10. What are the main pathways of complement system.
11. Explain the structure and functions of different types immunoglobulins.
(OR)
12. Explain antibody diversity.
13. Explain cell mediated and humoral immune response.
(OR)
14. Autoimmune diseases
15. Types of hypersensitivity.
(OR)
16. Explain vaccination and what are the types of vaccines.
17. Explain ELISA.
(OR)
18. How hybridoma technology is employed in production of monoclonal antibodies.


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