

Seat No. : _____

AO-114

April-2022

B.Sc., Sem.-IV

CC-204 : Biochemistry (Advance Techniques)

Time : 2 Hours]

[Max. Marks : 50

Section – I (Write answers of any 3 questions)

1. (a) Write a note on study of Important Lens Systems. 7
(b) Explain - Dark Field Microscopy. 7
2. (a) Give difference between-TEM & SEM. 7
(b) Write a note on Phase Contrast Microscopy. 7
3. (a) Explain - Centrifugation Principle of Sedimentation. 7
(b) Discuss - Density Gradient Centrifugation. 7
4. (a) Write - Ultracentrifugation, Working and Applications. 7
(b) Discuss - Types of Rotors used in Centrifuges. 7
5. Explain principle and working with diagram – GM Counters. 14
6. (a) Give Applications of Radioactivity/Radioisotopes 7
(b) Give - Hazards of Radioactivity. 7
7. Explain with own example - Representation of Data by Tally, Histogram. 14
8. (a) Give - Applications in Bio-state in Bio- Research. 7
(b) Write a note - Measures of Central Tendency. 7

Section – II (Write answers of any 8 questions)

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1. Define resolving power.
 2. Give function of objective lens.
 3. Define numerical aperture.
 4. Define angular aperture.
 5. Write meaning of cellular fractionation.
 6. What are different types of Rotors used in centrifuge ?
 7. Give two care taking steps of centrifuge machine maintenance.
 8. Name two factors affecting sedimentation.
 9. Define - Radio isotope.
 10. What is radioactive decay ?
 11. Give two examples of radioisotope used in biological science.
 12. Give two units used in Radiation science.
 13. Define bio-statistic.
 14. Full form of MD, SD
 15. What is mode of data – 5,8,2,8,6,8,3,3,1,4,8,2.
 16. What is mean of data – 10,8,9,10,2,1.
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