

SSR DEGREE COLLEGE AUTONOMOUS NIZAMABAD
FACULTY OF SCIENCE
DEPARTMENT OF MEDICAL LABORATORY TECHNOLOGY
SEMESTER –III PAPER-III BIOCHEMISTRY
UNIT WISE IMORTANT QUESTIONS -DEC 2026

UNIT- I

SHORT QUESTIONS (4 MARKS)

1. Percent solution
2. Biochemistry apparatus
3. Normal solution
4. Molar solution

ESSAY QUESTIONS (10 MARKS)

- 1 .Write about biochemistry apparatus
2. Define chemical balance explain principle and practice
- 3 .Explain about preparation of solution and reagents
- 4 .Define solution explain normal solution, molar solution, percent solution.

UNIT-II

SHORT QUESTIONS (4 MARKS)

1. Buffer solu
2. Aqueous solution tion
3. Standard solution
4. Units of measurements
5. Bio metabolites (enzyme, protiens, drugs, hormones, vitamins)

ESSAY QUESTIONS (10 MARKS)

1. Define Buffer solution explain dilutions w/w, v/v including standard solution aqueous solution.
- 2 .Describe concept of acid and base reactions
3. Define Units of measurements Explain SI units, reference range discus conversion factors.

4. Briefly discuss about Units of measurements of bio metabolites including enzyme, proteins, drugs, hormones, vitamins.

UNIT-III

SHORT QUESTIONS (4 MARKS)

1. Processing of blood
2. Specimen collection urine
3. CSF
4. Deproteinization of sample.
5. preservation of specimen.
6. Handling of specimens for testing
7. Transport of specimen

ESSAY QUESTIONS (10 MARKS)

1. Define specimen collection explain processing of blood, discuss urine and CSF.
2. Describe separation of serum and plasma including deproteinization of sample.
3. Briefly discuss about Handling of specimens for testing discuss preservation of specimen.
4. Define transport of specimen Explain factor affecting the clinical results including effect of storage on sample.

UNIT-IV

SHORT QUESTIONS (4 MARKS)

1. Maintenance Calibration of weighing balance
2. Centrifuges
3. Hotplate magnetic stirrer
4. Incubator
5. Hot air oven
6. Calorimeter
7. Spectrophotometer.
8. PH meter

9. Henderson Hassel blach equation

ESSAY QUESTIONS (10 MARKS)

- 1. Briefly discuss about principle ,working, care & maintenance Calibration of weighing balance**
- 2. Briefly discuss about Hotplate magnetic stirrer Explain centrifuges , incubator.**
- 3. Write about hot air oven ,calorimeter and discuss spectrophotometer.**
- 4. Describe water distillation plant explain deionizers Henderson Hassel blach equation**
- 5. Define PH paper , explain PH meter Including Method of measurement.**