

B.Sc Biochemistry (CBCS) Osmania University

Model Paper – Practicals

Semester V: Paper – (Practicals): Molecular Biology

Duration: 2 hours

Max. Marks: 25

1. Write the principles for the following experiments (5 Marks)
2. Major experiment (10 Marks)
3. Minor Experiment (5 Marks)
4. Viva voce and Record (5 Marks)

Question Bank – Practicals

Semester-V: Paper- BS 503 (Practicals): Physiology and Clinical Biochemistry

DSC-1E

1. Write the principles for the following experiments

- i. Estimation of hemoglobin
- ii. Estimation of urinary creatinine
- ii. Estimation of blood urea
- iii. Estimation of serum cholesterol

2. Major Experiments

- i. Determine the concentration of creatinine in the given urine sample
- ii. Determine the cholesterol concentration in the given serum sample
- iii. Determine the hemoglobin content in the given blood sample

3. Minor Experiments

- i. Report the abnormal constituents of the given urine sample
- ii. Determine the alkaline phosphatase activity in the given serum sample
- iii. Determine the SGOT activity in the given serum sample
- iv. Determine the SGPT activity in the given serum sample

Paul
27-9-18

B.Sc Biochemistry (CBCS) Osmania University

Question Bank- Practicals

Semester V: Paper –BS 506A (Practicals): Molecular Biology

DSE-1E

1. Write the principles for the following experiments

- i. Isolation of DNA from onions
- ii. Isolation of RNA
- iii. Electrophoresis of nucleic acids
- iv. Estimation of DNA by DPA method
- v. Estimation of RNA by orcinol method
- vi. Restriction mapping

2. Major experiment

- i. Determine the concentration of DNA in the given unknown sample by DPA method
- ii. Determine the concentration of RNA in the given unknown sample by orcinol method
- iii. Isolate plasmid DNA and confirm its presence.

3. Minor Experiment

- i. Isolate DNA from the onions and confirm its presence.
- ii. Determine the purity of nucleic acids in the given sample by UV - spectrophotometric method.
- iii. Determine the concentration of DNA in the given sample by UV absorption method.

Paul
27/9/18