

[LH 0815]

AUGUST 2015

Sub. Code: 5018

B.Sc. MEDICAL LABORATORY TECHNOLOGY

SECOND YEAR

PAPER III – CLINICAL PATHOLOGY AND BASIC HEMATOLOGY

Q.P. Code: 725018

Time: Three Hours

Maximum: 100 Marks

Answer all questions

I. Elaborate on:

(3 x 10 = 30)

1. Write briefly about collection and preservation of urine for examination? Write in detail about the tests done for various reducing substances in urine.
2. Classify anemia. Enumerate the laboratory investigations in Nutritional anemia.
3. Write briefly about Automation in hematology principle of automation, advantages and disadvantages.

II. Write notes on:

(8 x 5 = 40)

1. Quality control in hematology laboratory.
2. L.E cell preparation.
3. Erythrocyte sedimentation Rate (ESR).
4. Stool examination for occult blood.
5. Urinary casts.
6. Sperm count.
7. Reticulocyte count.
8. Cerebrospinal fluid.

III. Short answers on:

(10 x 3 = 30)

1. Drabkin's solution.
2. Ketone bodies.
3. Iron stain.
4. Recognition of blood parasites.
5. Techniques in molecular diagnostics.
6. Quantitative buffy coat.
7. Blood picture of chronic myeloid leukaemia.
8. Heinz bodies.
9. Name the anticoagulants used in Clinical pathology lab.
10. What are the red cell indices and their normal values?
