

**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 hemolytic anemias. Describe in detail the pathogenesis, clinical features and lab diagnosis of Beta thalassemia.
3. List the causes of thrombocytopenia. Describe in detail the pathogenesis, clinical features and lab diagnosis of Immune Thrombocytopenic Purpura (ITP).

**II. Write notes on:** **(8 x 5 = 40)**

1. Neutrophilia.
2. Tests for proteinuria.
3. Primary Myelofibrosis.
4. Stool examination.
5. Prothrombin time.
6. Qualitative platelet disorders.
7. Semen analysis.
8. Sputum examination.

**III. Short answers on:** **(10 x 3 = 30)**

1. Quantitative Buffy Coat (QBC).
2. Indications for 24 hour urine specimen.
3. Four causes for increased reticulocyte count.
4. Four causes for increased ESR.
5. Fetal hemoglobin.
6. Howell jolly bodies.
7. Four anticoagulants.
8. Fibrin degradation products.
9. Guaiac test.
10. Four indications for Bone marrow aspiration.