

P25/P27/HSC122/EE/20160522

Time : 3 Hours

Marks : 80

Instruction :

1. All Questions are Compulsory.
 2. Each Sub-question carry 5 marks.
 3. Each Sub-question should be answered between 75 to 100 words. Write every questions answer on separate page.
 4. Question paper of 80 Marks, it will be converted in to your programme structure marks.
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1. Solve any **four** sub-questions.
 - a) What are the heterozygous and homozygous conditions in sickle cell diseases? Give example. 5
 - b) Define Haemoglobinopathy. What are the two abnormal genetic statuses in Haemoglobinopathy? 5
 - c) What is the mechanism of Rh incompatibility in HDN diseases? 5
 - d) Name types of blood parasite disease and their respective blood parasite. 5
 - e) Give the principle of Osmotic fragility test. Give low of Osmosis. 5
2. Solve any **four** sub-questions.
 - a) Describe procedure of Bleeding Time by Duke's method. 5
 - b) What is Heinz Body? How it is formed? 5
 - c) What is G6PD? Give its clinical significance in diagnosis of disease. 5
 - d) Describe the laboratory investigation to diagnose Malaria. 5
 - e) Describe the mechanism of formation L.E. Cell. 5
3. Solve any **four** sub-questions.
 - a) Describe the different sites of Bone marrow collection in different age group. 5
 - b) Describe the procedure to store fresh frozen Plasma. Give its uses. 5
 - c) Describe advantages of automated cell counting method. 5
 - d) Define Antigen, Antibody with example in immunohematology study. 5
 - e) Describe causes and blood investigation observation of Megaloblastic Anemia. 5

4. Solve any **four** sub-questions.
- a) Give classification of Leukemia. 5
 - b) Describe abnormal morphology due to variation in size. Give clinical significance. 5
 - c) Describe Direct Coombs Test. Give its clinical significance. 5
 - d) What are major and minor cross match? Give its content and its importance in transfusion of blood. 5
 - e) Describe the mechanism of blood coagulation. 5

