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**PG CBCS**  
**M.SC. Semester-III Examination 2021**  
**MEDICAL LABORATORY TECHNOLOGY**  
**PAPER: MLT 304C**  
**(BLOOD BANK PROCEDURES)**

**Full Marks: 40****Time: 2 Hours****Answer any FOUR questions of the following:****4X10=40**

1. a) "Anti-A<sub>1</sub> is obtained from \_\_\_\_\_ plant & anti H is obtained from \_\_\_\_\_ plant"- Justify. 2+3+5  
 b) What are secretors and non-secretors?  
 c) Write a short note on Hb estimation by hemocue system.
2. a) What is 'Golden Blood Group'? 2+4+4  
 b) Write a short note about 'ab' production against 'ABO' system in human.  
 c) What is 'Bombay Phenotype'?
3. a) Write the application of 'CRBC' and 'FFP' in transfusion medicine. 3+4+3  
 b) Write a short note about the utilization of the substitutes of blood.  
 c) What do you mean by compatibility testing?
4. a) What is the storage requirement for platelets? 2+4+4  
 b) Explain the difference between RDP and platelet pheresis product.  
 c) Give the criteria of a platelet pheris donor.
5. a) Which test are performed in blood centre for TTI? 1+4+5  
 b) What are the merits and demerits of malaria parasite screening by slide method in respect to rapid diagnostic kits?  
 c) Write a short note about crossmatch done by 'Gel Technique'.
6. a) Write a short note about the adverse effect on preserve RBC in blood centre refrigerator. 4+2+4  
 b) What is GVSHD?  
 c) What are the advantages and disadvantages of autologous blood transfusion?
7. Write down about different types of acute immunologic transfusion reactions happen during or after blood transfusion in recipient. 10
8. a) What is HDN?  
 b) What are the causes of HDN?  
 c) What are the pathological changes occurs in HDN?  
 d) How can you diagnosis it is laboratory?
9. a) Write the definition of the followings: Quality Assurance, standard, positive control and standard deviation. 4+4+2  
 b) How can you maintain the quality of cryoprecipitate?  
 c) What do you mean by sensitivity and specificity of a kit?
10. a) Why prefer RPR in respect to VDRL in laboratory for syphilis test? 2+6+2  
 b) Write a short note about adverse effects occurs during blood collection along with management also.  
 c) How can you measure 350 ml blood is present in blood bag?

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