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Roll No. ....

**3rd Sem / Branch : DMLT**  
**Sub.: Transfusion Medicine**

Time : 3Hrs.

M.M. : 60

**SECTION-A**

**Note:** Multiple choice questions. All questions are compulsory (6x1=6)

- Q.1 The process of transfer of human blood is known as :  
a) Transfusion                      b) Processing  
c) Transporting                      d) Transferring
- Q.2 Rh group was discovered in \_\_\_\_\_.  
a) 1930s                                  b) 1940s  
c) 1960s                                  d) 1950s
- Q.3 If the blood group of an individual is A then the antibody present is \_\_\_\_\_.  
a) Anti B antibodies                  b) Anti A antibodies  
c) Anti O antibodies                  d) Anti AO antibodies
- Q.4 Which of the following is the mechanism of action of heparin?  
a) Heparin inhibit the hepatic synthesis of clotting factors  
b) Heparin binds to antithrombin III and increases the inactivation of clotting factors.  
c) Heparin inhibit the vitamin K dependent carboxylation of glutamate residue of clotting factor.  
d) All of the above

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Q.5 Storage period of blood with CPDA-1 is \_\_\_\_\_.  
a) 28 - 35 days                      b) 7 - 14 days  
c) 1 year                                  d) 10 days

- Q.6 Bovine albumin concentration in cross matching is \_\_\_\_\_.  
a) 32%                                      b) 22%  
c) 100%                                      d) 50%

**SECTION-B**

**Note:** Objective/Completion type questions. All questions are compulsory. (6x1=6)

- Q.7 Define antibody?
- Q.8 Expand EDTA?
- Q.9 Write the two types of coombs test.
- Q.10 Write the classification of antibodies on the basis of molecular structure.
- Q.11 Define blood banking.
- Q.12 First blood bank was established in \_\_\_\_\_ Hospital.

**SECTION-C**

**Note:** Short answer type questions. Attempt any eight questions out of ten questions. (8x4=32)

- Q.13 Classify antibodies.

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- Q.14 Write about slide test for performing ABO blood grouping.
- Q.15 Write the advantages and disadvantages of double oxalate anticoagulants.
- Q.16 Enlist the criteria for selection of a donor.
- Q.17 Describe briefly about the blood sample collection for haematological study.
- Q.18 Write the principle and procedure of direct Coomb's test.
- Q.19 Illustrate various types of cross matching.
- Q.20 Describe various components of blood.
- Q.21 Write principle and procedure of Rh blood grouping.
- Q.22 Mention any four uses of packed cells.

### SECTION-D

**Note:** Long answer type questions. Attempt any two questions out of three questions. (2x8=16)

- Q.23 Explain the various methods for cross matching.
- Q.24 Explain various immune mediated transfusion reactions in detail.
- Q.25 Write in details about slide and tube test for performing ABO blood grouping.