DG-1684
M. Sc. (Integrated Biotechnology) (Sem. V)
Examination
March / April - 2016
Blood Banking Techniques - I
(Elective Course)

Time : 2 Hours] [Total Marks : 50

Instructions :

(1)

(2) Figures to the right indicate full marks.

(3) Draw neat and labelled diagrams wherever necessary.

1 Give specific answers. (10)

a. State difference between A-antigen & B-Antigen in ABO system.

b. Name the enzyme responsible for conferring H activity on red cell membrane.

c. Who we can demarcate as secretors?

d. Which is the major antigen of Rh system?

e. What is difference between Weak D and Partial D?

f. State the advantage of tube technique over slide technique in blood grouping.

g. Who discovered Duffy blood group system?

h. What are the major purposes of X-matching?

i. State the significance of Indirect Antihuman globulin test.

j. Give the Full form of LISS.

2 Answer the following. (06)

a. Describe the Biochemistry of ABO system.

or

a. Describe Bombay Phenotype and discuss the method used to identify Bomb Phenotype.
b. Write a note on: Weaker Variants of D- Antigen
   or
b. Describe general characteristics of Rh-Antibodies.

3. Answer the following. (06)
   a. Write a note on Antigens & Antibodies of Kell Blood group system.
   or
   a. Write a note on Antigens & Antibodies of MNSs Blood group system.
   b. Explain immediate spin & Saline room temperature method for
      Blood grouping. State the limitation of these techniques.
      or
   b. Describe various methods for Cross matching.

4 Write short note on: (any two). (14)
   a. ABO HDN Vs Rh HDN.
   b. Major Crossmatching Vs Minor Crossmatching.
   c. Direct Anti Human Globulin Vs. Indirect Anti Human Globulin.