

M.D. DEGREE EXAMINATION

BRANCH XXI – IMMUNOHAEMATOLOGY AND BLOOD TRANSFUSION

**PAPER III – BLOOD DONOR ORGANISATION TECHNOLOGY OF
COMPONENTS CLINICAL HAEMATOLOGY**

Q.P. Code: 203013

Time: Three Hours

Maximum: 100 Marks

I. Essay Questions:

(2 x 15 = 30)

1. A preterm infant presented with jaundice and anaemia. Paediatrician has planned for exchange transfusion.
 - a) Give the guidelines suggested for exchange transfusion for haemolytic disease of preterm neonate within 12 hours of birth.
 - b) What would be the ideal blood group of choice?
 - c) Explain further, other aspects of exchange transfusion in such neonates.

2. Discuss the various functional areas and issues that blood collection and hospital facilities should consider in their planning and response strategies towards “Disaster Management”.

II. Short notes:

(10 x 7 = 70)

1. Advantages and disadvantages of type & screen versus type & crossmatch.
2. Massive transfusion.
3. Nucleic acid testing – Role in transfusion medicine.
4. Intra operative blood salvage.
5. National blood policy.
6. Harvesting and preservation of stem cells.
7. Role of hospital transfusion committee in promotion of judicious use of blood.
8. a. Near Miss Events. b. Discuss the causes and prevention of “Near Miss Events”.
9. List the essential records to be maintained by blood banks as per Drugs and Cosmetics Act, Govt. of India and discuss the principles of document control.
10. a. What are Quality system essentials?
 - b. What are the various quality indicators for blood bank?
