

MASINDE MULIRO UNIVERSITY

UNIVERSITY EXAMINATIONS

MSc. IN HEMATOLOGY & MSc IN IMMUNOLOGY

MAY-AUGUST 2017/2018 SEMESTER

BMH824: ADVANCED IMMUNOHAEMATOLOGY AND BLOOD TRANSFUSION

TIME: 2 HOURS

---

**INSTRUCTIONS:**

1. Do not write anything on this question paper
2. Questions in Section ONE is Compulsory and any other 3 questions.
3. **Each question is 25 marks**

1. a) Using a diagram, describe MHC molecule as a major consideration of tissue transplant [10 marks]  
b) Briefly describe 3 types of graft rejection [15 marks]
2. Describe the biochemistry of red cell antigens of the ABO system beginning with the precursor substance [25 marks]
3. Discuss 5 main haemopoietic agents in immunohaematology [25 marks]
4. a) Briefly discuss 5 allogeneic hazards of blood transfusion [15 marks]  
b) Differentiate between immediate and delayed types of transfusion reactions [10 marks]
5. a) Discuss 5 main applications of immunohaematology in forensic medicine [15 marks]  
b) Briefly describe 2 applications of molecular diagnostic techniques in immunohaematology [10 marks]