RAN-2203000205026006

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## T. Y. B. Sc. (Microbiology) (Sem. - V) Examination March - 2023

## MB - 506 : Haematology and Blood Banking

**Time: 2 Hours ]** **[ Total Marks: 50**

**સૂચના : / Instructions**

(1) **નીચે દર્શાવેલ ☛ નિશાનીવાળી વિગતો ઉત્તરવહી પર અવશ્ય લખવી.**
**Fill up strictly the details of ☛ signs on your answer book**

Name of the Examination:
☛ **T. Y. B. Sc. (Microbiology) (Sem. - V)**

Name of the Subject :
☛ **MB - 506 : Haematology and Blood Banking**

Subject Code No.: **2203000205026006**

Seat No.:

Student's Signature

(2) Figures to the right indicate the full marks of the question.
(3) Draw a neat and labelled diagrams wherever necessary.

**Q. 1. Answer the following in short: (08)**

1. What are platelets? Give their function.
2. Name the natural anticoagulant present in blood and state its mode of action.
3. What do you mean by MCHC?
4. Define: $D^u$ antigen.
5. Enlist two criteria for blood donor selection.
6. Advantages of tube method over slide method for ABO grouping.
7. Define BT and CT.
8. Give the causes of megaloblastic anaemia.

**Q. 2. Explain in detail any 2 of the following: (14)**

1. The Stages and process of Erythropoiesis.
2. Causes of Leucocytosis and Leukocytopenia
3. ABO blood group system. Give detail of antigens and antibody of ABO blood group system.

**Q. 3.** **Attempt the following:** **(14)**

1. Preparation of blood components.
2. Mechanism of coagulation.

**OR**

1. Pretranfusion test of Donor's blood.
2. Myeloid Leukaemia.

**Q. 4.** **Write short notes on any 2 of the following:** **(14)**

1. PCV.
2. Rh antigen.
3. Compatibility test.

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