

2103000205021056
EXAMINATION FEBRUARY-MARCH 2024
BACHELOR OF SCIENCE (FIFTH SEMESTER)
BIO SCIENCE (MICROBIOLOGY) PAPER - XI
BS-506-HAEMATOLOGY & BLOOD BANKING - LEVEL 2

[Time: As Per Schedule]

[Max. Marks: 50]

Instructions:

1. Fill up strictly the following details on your answer book

a. Name of the Examination: **BACHELOR OF SCIENCE (FIFTH SEMESTER)**

b. Name of the Subject: **BIO SCIENCE (MICROBIOLOGY) PAPER - XI BS-506-HAEMATOLOGY & BLOOD BANKING LEVEL 2**

c. Subject Code No: **2103000205021056**

2. Draw neat and clean diagram wherever necessary.

3. Figures to the right indicate full marks of the question.

4. All questions are compulsory.

Seat No:

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Student's Signature

Q.1 Multiple choice questions (MCQs):

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1. What is hematopoiesis?
 - a. formed elements
 - b. blood cell formation
 - c. erythrocyte formation
 - d. developing RBCs
2. The percentage of erythrocytes in blood is known as the _____.
 - a. hematocrit
 - b. buffy coat
 - c. haemoglobin
 - d. plasma
3. Which of the following is a coagulation factor?
 - a. Fibrin
 - b. Albumin
 - c. Calcium
 - d. None
4. Which of the following is a disorder of the WBC?
 - a. Leukemia.
 - b. Lymphomas
 - c. Multiple myelomas
 - d. All

5. Which part of blood can be transfused?
 - a. Plasma
 - b. Platelets
 - c. Red blood cells
 - d. All

6. Donated blood undergoes screening for which diseases?
 - a. AIDS
 - b. Hepatitis B
 - c. Both AIDS and Hepatitis B
 - d. Diabetes

7. Individual with blood group have both anti-A and anti-B antibodies in serum?
 - a. A
 - b. B
 - c. AB
 - d. O

8. Which of the following is a transfusion complication?
 - a. Fever
 - b. Infection
 - c. Allergic reaction
 - d. All

Q.2 [A] Answer as directed:

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1. Define: Anticoagulant
2. Give any two examples of hemoglobinopathies.
3. State any two blood components used for transfusion.
4. What is transfusion reaction?

[B] Write short notes (any two)

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1. ESR.
2. Blood packs.
3. Documentation blood banking.

Q.3 Answer any two of the following.

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1. Write a brief account on Leucopoiesis.
2. Describe in brief differential WBC count.
3. Write a note on thalassaemia.

Q.4 Write an essay on - Blood grouping techniques.

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OR

Answer the following questions.

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1. Explain: Screening of blood donor.
2. Write a detailed account on Investigation & Prevention of transfusion reaction.
