

AV-1943 Seat No. _____
B. Sc. (Sem. VI) Examination
March / April - 2018
Microbiology
Haematology & Blood Banking
(Subjective Elective)

Time : 2 Hours]

[Total Marks : 50

1 Answer the following Multiple Choice Questions : 6

- (1) What would happen to red blood cells if the haem group were removed from haemoglobin?
(A) Red blood cells would not be able to bind oxygen. <https://www.hnguonline.com>
(B) Red blood cells would not be able to reproduce.
(C) White blood cells would not be able to reproduce.
(D) Blood clot formation would be inhibited.
- (2) Which of the following is the function of white blood cells?
(A) Transport oxygen.
(B) Maintain homeostasis.
(C) Defend against infection.
(D) Produce haemoglobin.

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- (3) Which of the following white blood cells is capable of phagocytosis?
(A) Basophil
(B) Eosinophil
(C) Lymphocyte
(D) Neutrophil
- (4) The relatively clear liquid medium which carries the other cells of blood is called:
(A) lipid
(B) antibody
(C) plasma
- (5) Which of the following directly defines the transportation of oxygen?
(A) hemoglobin
(B) oxyhemoglobin
(C) reduced hemoglobin
(D) red cell count
- (6) Which are the largest of the white blood cells?
(A) lymphocytes
(B) eosinophils
(C) basophils
(D) monocytes

2 Answer the following questions : (Any Five) 10

- (1) What is the blood?
- (2) What is the molecular composition of hemoglobin?
- (3) What are the other names for erythrocytes? What is the function of these cells?
- (4) Where does hematopoiesis occur?

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- (5) What are the main functions of blood?
- (6) What is the function of platelets?
- (7) What is the difference between white and red blood cells? What are leukocytes?

3 Give the detailed notes on the following : 18
(Any Three)

- (1) Principal and purpose of cross matching.
- (2) Erythrocytes
- (3) Blood group system
- (4) Thrombocytes
- (5) Mention function of Anticoagulants, and Hemoglobin

4 Discuss the following in detail : (Any Two) 16

- (1) Serum and Plasma
- (2) Leukocytes
- (3) Minor and Major cross matching
- (4) The Rh system.

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