

APRIL/MAY 2019

**BSMB33 — HAEMATOLOGY AND BLOOD
BANKING**

Time : Three hours

Maximum : 75 marks

SECTION A — (10 × 2 = 20 marks)

Answer ALL questions.

1. Define plasma.
2. What is Serum?
3. Comment on granulocyte.
4. Write a note on Gower's solution.
5. Comment on mean corpuscular volume levels.
6. Write about normal ESR level.
7. Comment on peroxidase stain technique.
8. Write short note on thin blood film preparation.
9. Critically comment on Rh factor.
10. Define minor cross matching.



SECTION B — (5 × 5 = 25 marks)

Answer ALL questions.

11. (a) Describe the procedure involved in the venous blood collection from infants.

Or

- (b) What are the various examinations employed in capillary blood sample?

12. (a) Describe the procedure involved in estimation of Reticulocyte count.

Or

- (b) Describe the Haldane method for hemoglobin estimation.

13. (a) Write short notes on mean corpuscular haemoglobin (MCV)

Or

- (b) What does PCV mean in blood test? What is the normal range of PCV?

14. (a) Explain briefly about the examination of Blood by peripheral smear report.

Or

- (b) Describe the method of preparation of wright stain.

15. (a) Why is blood screening is important? What tests are done when donating blood?

Or

- (b) What does ABO blood group mean?

SECTION C — (3 × 10 = 30 marks)

Answer any THREE questions.

16. Write a detailed account on the various anticoagulants used in the prevention of blood clotting, their advantages and disadvantages.

17. Describe the procedure involved in the total erythrocyte count using haemocytometer.

18. Discuss in detail the types and procedure involved in coagulation tests.

19. Give a elaborate account on the smear preparation and stains used in the identification of Malarial parasite.

20. Describe the various methods used for the storage and preservation of Blood.

