

NOVEMBER/DECEMBER 2019

**BSMB33 — HEMATOLOGY AND BLOOD
BANKING**

Time : Three hours

Maximum : 75 marks



SECTION A — (10 × 2 = 20 marks)

Answer ALL questions.

Each answer not to exceed 50 words.

1. Platelets.
2. Chyle.
3. Reticulocyte count.
4. Eosinophil.
5. Bleeding time.
6. Fibrinogen.
7. Peripheral blood smear.
8. Field stain.
9. Blood transfusion.
10. Major cross match.

SECTION B — ($5 \times 5 = 25$ marks)

Answer ALL questions.

11. (a) Write short notes on the anticoagulants EDTA, citrate and heparin.

Or

- (b) What are the advantages of capillary blood sample collection?

12. (a) Write short notes on Neubauer counting chamber.

Or

- (b) Describe briefly the procedure involved in Blood Platelet count.

13. (a) Describe the estimation of Erythrocyte sedimentation rate by westergren method.

Or

- (b) What does a low packed cell volume indicate? How can one increase the PCV level?

14. (a) Describe briefly the uses of thin blood smear and thick blood smear in the analysis of parasitic infection.

Or

- (b) Write short notes on Giemsa stain.

15. (a) Write an account on Bovine Replacement technique.

Or

- (b) Explain briefly the procedure involved in direct Coombs test.

SECTION C — ($3 \times 10 = 30$ marks)

Answer any THREE questions.

Give an elaborate account on the venous blood collections from adult and explain the various examinations employed in venous blood sample.

17. Describe the procedure involved in differential Leucocyte count.

18. Write a detailed account on the estimation of Mean Corpuscular Haemoglobin Concentration (MCHC).

19. Describe the procedure involved in the preparation of wright stain and Leishman stain.

20. Write an essay on 'ABO' blood group.

