

19. Write an elaborate account the blood smear preparation and stains used in filarial parasite microfilaria.
20. Write the procedure involved in direct and indirect Coombs test.
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NOVEMBER/DECEMBER 2018

**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.

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1. Heparin.
  2. EDTA.
  3. Hayem's solutions.
  4. Rouleaux.
  5. Erythrocyte sedimentation rate.
  6. Hematocrit.
  7. Wright stain.
  8. Thick blood smear.
  9. Universal donor.
  10. Anticoagulants.

SECTION B — ( $5 \times 5 = 25$  marks)

Answer ALL questions.

Each answer not to exceed 200 words.

11. (a) Explain briefly the composition and functions of blood.

Or

- (b) Discuss briefly the procedure involved in capillary blood collection.

12. (a) Describe briefly the procedure to estimate the total erythrocyte count using haemocytometer.

Or

- (b) Explain the Shalli haematin method used to determine haemoglobin.

13. (a) Write the procedure involved in the estimation of Mean Corpuscular Volume (MCV).

Or

- (b) Write short notes on mean corpuscular diameter.

14. (a) Write an account on Jaswant Singh and Bhattarcharji Stain.

Or

- (b) Describe briefly the procedure involved in Giemsa Stain preparation.

15. (a) Describe the Rh tube method.

Or

- (b) What is an antigen in blood? How this helpful in blood grouping?

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

Answer any THREE questions.

Each answer not to exceed 500 words.

16. Discuss the procedure involved in the venous blood collection from adults and infants.
17. Write a detailed account on the procedure involved to count member of platelets in the given blood sample.
18. Give a detailed account on the 13 blood clotting factors. What are the 3 stages of blood clotting?