

2022

MSHW

(B.Sc. Second Semester End Examination-2022)

PAPER-203T

[Haematology]

*Full Marks: 40*

*Time: 02 Hrs*

*The figures in the right hand margin indicate marks  
Candidates are required to give their answers in their own words as  
far as practicable*

*Illustrate the answers wherever necessary*

- 1. Answer any five questions from the following: 5x2= 10**
- a. What is leucocytosis? Give the name of one cell type of leucocytes.
  - b. Write two disease conditions where thrombocytopenia may be developed.
  - c. What types of peripheral blood film(PBF) are prepared for microscopic study?
  - d. What is the function of methylene blue in stain?
  - e. Mention two features to identify PMN cells.
  - f. What is micro ESR?
  - g. Write down two causes of prolonged bleeding time (BT)
  - h. What type of abnormality is found in Hbs?

(2)

2. Answer any four questions from the following: **4x5 = 20**

- a. What is autoclaving? What type of blood compounds are prepared for transfusion?  $2\frac{1}{2} + 2\frac{1}{2}$
- b. Write the procedure of Giemsa stain. 5
- c. What criteria should be followed for PBF examination? What are the normal values of DC? 2+3
- d. Write the Duke's method to determine BT. 5
- e. What is haemostasis? Write the names of any six coagulation factors. 2+3
- f. What is compatibility testing of cross matches? Describe its procedure. 2+3

3. Answer any one question of the following: **1x10 = 10**

- a. Which tests are performed in TTI Lab? What is the principle of cyanmet Hb? Write down five major criteria of blood donor selection. 3+2+5
- b. What types of haemoglobin are found in normal human? Write the principle of ESR. State the clinical significance of ESR. Describe one method to determine sickle-cell anaemia.

2+2+3+3

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