

BV (2/CBCS) MLT-VC-2036/23

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MEDICAL LABORATORY TECHNICIAN

Job Role : Phlebotomy Technician

Paper : MLT-VC-2036

(Pathology—II)

Full Marks : 60

Time : 3 hours

*The figures in the margin indicate full marks
for the questions*

1. Fill in the blanks of the following : $1 \times 7 = 7$

(a) _____ stem cell is recognized as trilineage stem cell.

(b) _____ needle is used for bone marrow aspiration.

(c) Erythropoietin hormone which stimulates red cell production is secreted by _____.

(d) Reticulocytes are stained by _____.

(e) Normal bleeding time by Duke's method is _____.

(f) Possible genotype of 'O' blood group is _____.

(g) Osmotic fragility is increased in _____.

2. Answer the following questions :

2x4=8

(a) What are the various sources of biomedical waste?

(b) Write down the clinical significance of eosinophil count.

(c) Mention different components of haemostasis.

(d) How is reticulocyte related to erythropoietic activity?

3. Answer any three of the following questions :

5x3=15

(a) Write a note on haemophilia A.

(b) How will you diagnose haemolytic anaemia?

(c) Classify fixative along with examples.

(d) How will you investigate haemostatic mechanisms?

(e) Write a note on bone marrow aspiration.

(3)

4. Answer any *three* of the following : $10 \times 3 = 30$

(a) What is biomedical waste? Why is it important to give proper treatment to BMW? Who are at risk? What are the most common infections caused by biomedical waste? Mention the colour code segregation of BMW. $1+2+1+3+3=10$

(b) What do you mean by GM-CSF? Write down the stages of development of Granulocytes and Monocytes. $1+5+4=10$

(c) Explain different roles of cytology in the diagnosis of various diseases and other conditions. 10

(d) Write down the functions of platelets. Give a description to evaluate platelet function. $5+5=10$

(e) What is Romanowsky stain? What is the principle of Romanowsky stain? How will you prepare a thin blood film and stain with Leishman's stain? $1+2+7=10$

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