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BRAINWARE UNIVERSITY

Term End Examination 2025-2026

Programme – B.Sc.(MLT)-2022/B.Sc.(MLT)-2023/B.Sc.(MLT)-2024/B.Sc.(MLT)-2025

Course Name – Hematology

Course Code - BMLTC201

(Semester II)

Full Marks : 60

Time : 2:30 Hours

[The figure in the margin indicates full marks. Candidates are required to give their answers in their own words as far as practicable.]

Group-A

(Multiple Choice Type Question)

1 x 15=15

1. Choose the correct alternative from the following :

- (i) Identify which of the following is not one of the Romanowsky stains.
 - a) Giemsa Stain
 - b) Leishman Stain
 - c) Haematoxylin Stain
 - d) Field Stain
- (ii) How would you classify the following forms when Iron is incorporated into the heme molecule?
 - a) Ferro
 - b) Ferrous
 - c) Ferric
 - d) Apoferritin
- (iii) Identify the condition when MCV & MCH are higher than normal and MCHC is normal.
 - a) Microcytic anemia.
 - b) Macrocytic anemia.
 - c) Hypochromic anemia.
 - d) aplastic anemia.
- (iv) Interpret which of the following types of anemia is caused by a deficiency of vitamin B12.
 - a) Iron-deficiency anemia.
 - b) Aplastic anemia.
 - c) Sickle cell anemia.
 - d) Pernicious anemia.
- (v) How many smallest squares are used for counting RBC in neubauer chamber?
 - a) 16
 - b) 200
 - c) 400
 - d) 64
- (vi) Which combination best differentiates plasma from serum?
 - a) Albumin and globulin
 - b) Immunoglobulins
 - c) Fibrinogen and clotting factors
 - d) Electrolytes
- (vii) Which plasma protein abnormality explains edema in liver cirrhosis?
 - a) Increased albumin
 - b) Decreased globulins only
 - c) Decreased albumin with edema
 - d) Increased fibrinogen only
- (viii) Which laboratory finding best reflects increased erythropoiesis?
 - a) Decreased reticulocyte count
 - b) Increased reticulocyte count
 - c) Increased ESR
 - d) Decreased MCV

