

REV-01
BMLT/01/05

2023/01

BACHELOR IN MEDICAL LABORATORY TECHNOLOGY
FIRST SEMESTER
PATHOLOGY-I
BMLT-105(REPEAT)

**SET
A**

[USE OMR SHEET FOR OBJECTIVE PART]

Duration: 3 hrs.

Full Marks: 70

Time: 30 mins.

(Objective)

Marks: 20

Choose the correct answer from the following:

1×20=20

- 40X objective lens also called as
 - Scanning
 - High power
 - Low Power
 - Oil immersion
- Hypoxia means
 - Less oxygen supply in body
 - Less Hb in body
 - Low level of RBC in body
 - None of the above
- Anticoagulant vial used for glucose estimation contain
 - Sodium citrate
 - Heparin
 - Sodium fluoride
 - EDTA
- Which hormone regulate thrombopoiesis
 - Erythropoietin
 - Thrombopoietin
 - TSH
 - FSH
- Anaemia is a condition where
 - Hb level is below normal range
 - Low blood sugar level
 - High blood sugar level
 - High Hb level in body
- ESR estimation method is/are
 - Westergren tube method
 - Wintrobe method
 - Both a & b
 - Haemocytometer
- All are components of urine except :
 - Urea
 - RBC
 - Creatinine
 - Ammonia
- Which one is not a function of WBC :
 - Fight against infection
 - Carry blood group antigens
 - Phagocytosis
 - Carry Oxygen to body
- The type of Haemoglobin found in newborn babies is :
 - HbA
 - HbE
 - HbF
 - HbS
- The following are parts of the Urinary system except :
 - Kidneys
 - Ureters
 - Urinary bladder
 - Pancreas

11. The members of Romanowsky are all of the following except:
 - a. Grams stain
 - b. Leishman stain
 - c. Wright's stain
 - d. Giemsa stain
12. Which one is not an objective lens :
 - a. 4x
 - b. 40x
 - c. 9x
 - d. 10x
13. The colour of the cap of anticoagulant for Glucose estimation is:
 - a. Blue
 - b. Grey
 - c. Red
 - d. Black
14. Normal count of WBC is :
 - a. 500 to 5000
 - b. 10,000 to 15,000
 - c. 15,000 to 25,000
 - d. 4,000 to 11,000
15. A juvenile RBC is called a:
 - a. Erythrocyte
 - b. Elliptocyte
 - c. Reticulocyte
 - d. Megakaryocyte
16. The normal Hb level in an adult male is :
 - a. 12-16 gm%
 - b. 5-10 gm%
 - c. 10-15 gm%
 - d. 15-20 gm %
17. The following blood cells contain granules in their cytoplasm except :
 - a. Basophil
 - b. Lymphocyte
 - c. Eosinophil
 - d. Neutrophil
18. The non-nucleated cells in blood are :
 - a. Lymphocyte
 - b. Neutrophil
 - c. RBC & Platelet
 - d. Monocytes
19. The shape of a normal RBC is :
 - a. Biconvex
 - b. Biconcave
 - c. Spherical
 - d. Square
20. The temperature of hot air oven is :
 - a. 200°C
 - b. 50-100°C
 - c. 10-40°C
 - d. 160°C for 2 hrs

(Descriptive)

Time : 2 hrs. 30 mins.

Marks : 50

[Answer question no.1 & any four (4) from the rest]

1. Explain the erythropoiesis process in details. 10

2. Draw the structure of urinary system and write compositions of urine. 10

3. a) Describe the structure of a Platelet with a diagram. 5+5=10
b) Describe Thrombopoiesis.

4. a) What are the common blood groups. 5+5=10
b) Write brief note on ABO group.

5. Briefly describe the making and staining of a Peripheral blood smear . 10

6. Give composition and routine examination of Urine . 5+5=10

7. a) What are Anticoagulant. 5+5=10
b) Discuss various anticoagulant used in the laboratory

8. Write short notes on any two o the following : 5+5=10
a) Rh blood grouping system
b) Structure of the Haemoglobin
c) RBC

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