REV-01 BMLT/68/34/39 2023/12

SET

B

BACHELOR OF MEDICAL LABORATORY TECHNOLOGY FIRST SEMESTER

PATHOLOGY

BMLT - 105
(USE OMR SHEET FOR OBJECTIVE PART)

Duration: 3 hrs.

Objective)

Full Marks: 70

Time: 30 min.

Marks: 20

Choose the correct answer from the following:

 $1 \times 20 = 20$

- 1. The Stage of a microscopic is:
 - a. Dancing place
 - c. Speaker's place

- b. Singing place
- d. Where object for study is placed

- 2. Colour of Urine is:
 - a. Red
 - c. Blue

- b. Straw
- d. Green
- 3. The Specific Gravity of Urine is:
 - a. 1.001-1.010
 - c. 1.003-1.030

- b. 1.002-1.020
- d. 1.04-1.040
- In the context of the ABO blood group, a transfusion of AB blood may be given to a
 person who has blood type
 - a. O

b. AB

c. A

- d. B
- 5. Which of the below not a method of urine collection
 - a. Catheter sample collection
- b. Random urine sample
- c. Mid stream urine sample
- d. Paracentesis
- 6. Other name of WBC counting fluid
 - a. Hayem solution

b. Turk's fluid

c. Serous fluid

- d. None of the above
- 7. AB blood group is called the:
 - a. Universal Recipient

b. Universal Donor

d. University Controller

- c. University Professor
- 8. Formation of WBC is called:
- b. Leucopoiesis

a. Erythropoiesisc. Lymphopoiesis

- d. Thrombopoiesis
- 9. Most reliable method for Hb estimation is
 - a. Sahli method

b. WHO colour scale

c. Strip method

d. Cyanmethemoglobin method

10.	Which one is not a composition of urine? a. Urea c. Ammonia		Uric Acid Sucrose	
11.	11. Venous blood is collected from			
	a. Fore armc. Arteries		Finger Tip All of the above	
12.	Thrombopoiesis process is regulated by a. Erythropoietin c. Thrombopoietin		Leucopoietin None of the above	
13.	Anticougulant use for ESR Estimation isa. 3.8 % Sodium Flouridec. 3.8 % Tri Sodium Citrate		3.2 % Sodium Citrate Heparin	
14.	Which of the below is not true about RBC a. It's Bi-concave disc shape c. It transport oxygen		It's nucleated cell It contain Hb chain	
15.	Which one is not sign of inflammation is/as a. Rubor c. Tumor	b.	Calor Dolar	
16.	Temp and time require for hot air oven is/a a. 160°c for 2 hours c. 180°c for 30 min	b.	170°c for I hour All of the above	
17.	In Leishman stain Eosin will stain the a. Nucleus c. Nucleus pink		Cytoplasm Cytoplasm blue	
18.	Dilution factor for TLC a. 20 c. 1/200		1/20 200	
19.	In ABO System, Blood group 'O' is characted. a. Presence of antigen O c. Absence of both AB antigen	b.	ed by Presence of both AB antigen Presence of both AB Antibody	
20.	Which of the following is not example of roa. Leishman stain c. Methylene blue stain	b.	nowsky stain Wright stain Geimsa stain	

Descriptive

Time: 2 hrs. 30 min. Marks: 50

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

 Draw, label and describe different parts of the Microscope. 10 2. Write the principle, procedure and interpretation of Leishman 10 staining. 3. a. Define anaemia. 2+8=10 b. Write procedure, calculation and clinical significance of RBC count. 4. a. Write the principle and procedure of Sahli's method of Hb 5+5=10 b. Write name of the 5 sign of inflammation along with their meaning 3+7=10 a. Give the composition of urine. b. Write down the different type of urine collection. 6. a. What is the scientific name of RBC formation? 2+8=10 b. Describe the stages of formation of RBC with a neat diagram. 7. a. Write an essay on ABO blood group system. 8+2=10 b. Which group is called the "Universal donor"? 8. Describe the process of Leucopoiesis 10

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