

REV-01  
BMLT/25/30

2023/01

**BACHELOR IN MEDICAL LABORATORY TECHNOLOGY  
FIRST SEMESTER  
PHYSIOLOGY-I  
BMLT-102**

**SET  
A**

[USE OMR SHEET FOR OBJECTIVE PART]

Duration: 3 hrs.

Full Marks: 70

Time: 30 mins.

**( Objective )**

Marks: 20

1×20=20

Choose the correct answer from the following:

- Which joint is a freely movable joint
  - Cartilagenous joint
  - Synovial joint
  - Fibrous joint
  - None of the above
- In which phase DNA replication occurs
  - S phase
  - G1 phase
  - G2 phase
  - None
- How many types of muscle are there in human body
  - 3
  - 4
  - 1
  - 2
- Collection of cells having similar structure and function is known as
  - cell
  - tissue
  - organ
  - system
- In which type of cell division the number of chromosome is halved
  - Mitotic cell division
  - Meiotic cell division
  - Both 1& 2
  - None of the above
- Blood is which type of tissue
  - Muscular tissue
  - Connective tissue
  - Nervous tissue
  - Epithelial tissue
- True statement is
  - Osteoblast give rise to osteocytes
  - Growth of bone occurs in diaphysis
  - Interphalangeal joint is a saddle joint
  - None of the above
- How many bone are there in the average person body
  - 406
  - 206
  - 306
  - 106
- What makes bones so strong
  - Cartilage
  - Bone marrow
  - Calcium and Phosphorus
  - Silica
- The hollow space in the middle of bones is filled with
  - Blood cells
  - Connective cells

- c. Cancellous bone cells  
d. Compact bone cells
11. Alternating waves of contraction is called  
a. Peristalsis  
b. Segmentation  
c. Ingestion  
d. None of the above
12. Moving foods from one region of the digestive system to another  
a. Digestion  
b. Propulsion  
c. Peristalsis  
d. None of the above
13. Carbohydrates are broken to .....  
a. Simple sugars  
b. Compound sugars  
c. Both a & b.  
d. None of the above
14. Fats are broken to .....  
a. Fatty Acids  
b. Alcohols  
c. Both a & b  
d. None of the above
15. Life span of RBC  
a. 120 DAYS  
b. 110 DAYS  
c. 130 DAYS  
d. 140 DAYS
16. Which blood group is known as universal recipients  
a. O group  
b. AB group  
c. B group  
d. A group
17. White blood cell is known as  
a. Lymphocytes  
b. Erythrocytes  
c. Leukocytes  
d. Granulocytes
18. Important sites for fetal blood cell production is  
a. Spleen and liver  
b. Bone marrow  
c. Kidney  
d. spleen
19. Stomach is..... shaped  
a. J shaped  
b. L shaped  
c. D shaped  
d. None of the above
20. Moving materials back and forth to aid in mixing.  
a. Segmentation  
b. Peristalsis  
c. Both a & c  
d. None of the above

-- -- --



**( Descriptive )**

Time : 2 hrs. 30 mins.

Marks : 50

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

- |   |    |
|---|----|
| 1. What is bone write the formation and its function of bone?                             | 10 |
| 2. Write a note on cell division  | 10 |
| 3. Write the difference between cell and tissue . Write the function of blood components. | 10 |
| 4. What are the types of Digestion. Explain in details about the types .                  | 10 |
| 5. Discuss about the function of Esophagus,Stomach and Small Intestine                    | 10 |
| 6. What are the Accessory Digestive Organs? Explain                                       | 10 |
| 7. Difference between Ingestion and Propulsion.   | 10 |
| 8. Define the following:  | 10 |
| a) Peristalsis  |    |
| b) Segmentation   |    |
| c) Ingestion  |    |

= = \*\*\* = =