

BACHELOR OF MEDICAL LABORATORY TECHNOLOGY
FIRST SEMESTER
PHYSIOLOGY I
BMLT – 102 [REPEAT]
(USE OMR SHEET FOR OBJECTIVE PART)

**SET
A**

Duration: 3 hrs.

Full Marks: 70

(Objective)

Time: 30 min.

Marks: 20

Choose the correct answer from the following:

1×20=20

- The alpha cells in the pancreas secrete
 - Insulin
 - Thyroxin
 - Glucagon
 - Pancreatic juice
- In which phase DNA replication occurs
 - S phase
 - G1 phase
 - G2 phase
 - None
- Chromosome are composed of
 - Protein, DNA
 - Protein, RNA
 - Glycolic acid, lysine
 - None of the above
- 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
- Which of these is the correct order of events in the cell cycle
 - G1→G2→S→M
 - G1→G2→M→S
 - G1→S→G2→M
 - S→M→G1→G2

10. The hollow space in the middle of bones is filled with
- | | |
|--------------------------|-----------------------|
| a. Blood cells | b. 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. The enzymes present in pancreatic juices are
- | | |
|-------------------------------|---------------------------------|
| a. Peptidase, pepsin, amylase | b. Trypsinogen, lipase, amylase |
| c. Maltase, amylase, pepsin | d. Amylase, trypsinogen, renin |
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. What is the sort of joint that connects the neighboring vertebrae?
- | | |
|------------------------|------------------|
| a. Pivot joint | b. Fibrous joint |
| c. Cartilagenous joint | d. Gliding joint |
20. Moving materials back and forth to aid in mixing.
- | | |
|-----------------|----------------------|
| a. Segmentation | b. Peristalsis |
| c. Both a & c | d. None of the above |

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(Descriptive)

Time : 2 hrs. 30 min.

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. What is digestion, mechanical digestion and chemical digestion? Discuss the movement of the alimentary tract. 5+5=10
6. Write a note on pulse and shock. 5+5=10
7. What is blood group? why it is important and write down the rules of blood group. 2+8=10
8. Define the following: 10
 - a. Peristalsis
 - b. Segmentation
 - c. Ingestion

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