

**DIPLOMA IN MEDICAL LABORATORY  
TECHNOLOGY  
FIRST SEMESTER  
PHYSIOLOGY I  
DMLT – 102**

**SET  
A**

[USE OMR SHEET FOR OBJECTIVE PART]

Duration: 3 hrs.

Full Marks: 70

Time: 30 min.

**( Objective )**

Marks: 20

**1×20=20**

***Choose the correct answer from the following:***

1. Study of tissue is known as
  - a. Histology
  - b. Myology
  - c. Hematology
  - d. None of the above
2. .... Is known as 'Suicidal bag'
  - a. Mitochondria
  - b. Ribosome
  - c. Centrosome
  - d. Lysosome
3. Which is the longest segment of the digestive system in the human body?
  - a. Esophagus
  - b. Small intestine
  - c. Pancreatic duct
  - d. Large intestine
4. Haematology is the study of:
  - a. Lymph
  - b. Blood
  - c. Tissue
  - d. Cell
5. Name the valve running between the stomach and the oesophagus
  - a. Cardiac sphincter
  - b. Gastric valve
  - c. Pyloric sphincter
  - d. Ileo-caecal valve
6. Tissues present in brain and spinal cord are known as
  - a. Epithelial tissue
  - b. Muscle tissue
  - c. Nerve tissue
  - d. Connective tissue
7. Neutrophil is:
  - a. Granulate
  - b. Beaded
  - c. Both of the above
  - d. None of the above
8. What is the function of bile in digestion?
  - a. Break down protein
  - b. Emulsify fats
  - c. Break down fats
  - d. Break down carbohydrate
9. Large round nucleus is:
  - a. Basophil
  - b. Monocyte
  - c. Platelets
  - d. Lymphocyte

10. Examples of Anticoagulant is:
  - a. EDTA
  - b. Heparin
  - c. Both of the above
  - d. None of the above
11. Blood is red colour due to:
  - a. Haem
  - b. Globin
  - c. Both of the above
  - d. None of the above
12. The majority of the water from the indigestible food is absorbed in .....
  - a. Stomach
  - b. Large Intestine
  - c. Small intestine
  - d. Liver
13. Acetic acid is present in:
  - a. Heparin
  - b. EDTA
  - c. Both of the above
  - d. None of the above
14. Movement of the walls of the gut is known as
  - a. Peristalsis
  - b. Systole
  - c. Diastole
  - d. None of the above
15. Numbers of factors in Coagulation of blood is:
  - a. 11
  - b. 12
  - c. 13
  - d. 14
16. Digestion of proteins is done by
  - a. Pepsin
  - b. Lactose
  - c. Trypsin
  - d. None of these
17. Vein is :
  - a. Deoxygenated
  - b. purple
  - c. Both of the above
  - d. None of the above
18. Organism made up of only one cell
  - a. Multicellular
  - b. Unicellular
  - c. Epidermal
  - d. None of the above
19. Protein common in both blood and muscle is:
  - a. Keratin
  - b. Collagen
  - c. Globin
  - d. Haem
20. Dilution factor in RBC pipette is:
  - a. 11
  - b. 101
  - c. 201
  - d. 301

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**( Descriptive )**

Time : 2 hrs. 30 min.

Marks : 50

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

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|---|--------|
| 1. Discuss the composition and function of gastric juice?                                       | 10     |
| 2. Define blood and give its classification based on composition.                               |        |
| 3. Write down the functions of digestive system? Describe the movement of GI tract?             | 5+5=10 |
| 4. Give five functions of blood and draw neutrophil, monocyte and basophil.                     | 10     |
| 5. Describe the structure and functions of the various organelles present in cell with diagram? | 5+5=10 |
| 6. Explain the four primary types of human tissue with diagram?                                 | 5+5=10 |
| 7. Define circulatory system and draw a diagram of heart and label it.                          | 10     |
| 8. Name the four chambers of heart. Write the role of lung in transmission of blood from heart. | 10     |

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