

**BACHELOR OF PHYSIOTHERAPY  
SEMESTER-1<sup>ST</sup>  
HUMAN PHYSIOLOGY-I  
BPT-103**

**Duration: 3 Hrs.**

**Marks: 70**

PART : A (OBJECTIVE) = 20  
PART : B (DESCRIPTIVE) = 50

**[ PART-B : Descriptive ]**

**Duration: 2 Hrs. 40 Mins.**

**Marks: 50**

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

1. Define Anaemia. Give a broad classification of Anaemia. 10
2. Define cell. Draw a neat diagram of a cell and explain the various organelles present inside. 10
3. What are salivary glands. What are the various types and function. 10
4. Explain lung volumes and capacities. 10
5. Explain the conduction system of the heart. 10
6. What are neurons. Explain with a neat diagram. 10
7. Explain the mechanism of action potential in details. 10
8. Explain the formation of urine. 10

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**[ PART-A : Objective ]**

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

**1X20=20**

1. What is the normal time of a cardiac cycle
  - a. 0.5sec
  - b. 0.8sec
  - c. 1 sec
  - d. 2 sec
2. Which of the following is known as the power house of the cell
  - a. Ribosomes
  - b. Lysosomes
  - c. Mitochondria
  - d. Nucleus
3. The structural and functional unit of a nerve cell is
  - a. Neuron
  - b. Myelin sheath
  - c. Axon
  - d. Schwann cells
4. Which of the following is the mildest form of nerve injury
  - a. Neuropraxia
  - b. Axontemesis
  - c. Neurotmeses
  - d. All
5. Which is not a type of RNA
  - a. mRNA
  - b. tRNA
  - c. rRNA
  - d. dRNA
6. Blood is red in colour due to
  - a. Haemoglobin
  - b. Bile
  - c. Plasma
  - d. Albumin
7. Erythropoiesis is the formation of
  - a. Platelets
  - b. WBC
  - c. RBC
  - d. None
8. Thrombocytopenia is a condition where the number of platelets
  - a. Increases
  - b. Decreases
  - c. Remains same
  - d. None
9. Saltatory conduction takes place in
  - a. Myelinated nerve fibre
  - b. Unmyelinated nerve fibre
  - c. Small cutaneous nerves
  - d. All of the above
10. Myasthenia Gravis is an auto immune disease of
  - a. Nerves
  - b. Muscles
  - c. Arteries
  - d. Veins
11. Sarcomere is bounded by 2
  - a. Z lines
  - b. A lines
  - c. M lines
  - d. I lines
12. Hypertonia is the condition where the tone of the muscle
  - a. Increases
  - b. Decreases
  - c. Remains same
  - d. None
13. The total number of leads present in an ECG are
  - a. 10
  - b. 11
  - c. 12
  - d. 13
14. Stimulation of the sympathetic nerve causes ----- in heart rate
  - a. Increase
  - b. Decrease
  - c. Abruptly decrease
  - d. Remains same

15. Deoxygenated blood from the right ventricle reaches the lungs through
- Aorta
  - Pulmonary artery
  - Pulmonary veins
  - Alveoli
16. Which of this is known as the pacemaker of the heart
- SA node
  - Av node
  - Bundle of his
  - Purkinje fibres
17. There are ----- heart sounds
- 2
  - 3
  - 4
  - 5
18. Marey's law states that heart rate and blood pressure are
- Directly proportional
  - Inversely proportional
  - Both
  - None
19. Bile is secreted by the cells of
- Thyroid
  - Kidney
  - Liver
  - Gall bladder
20. The structural and functional unit of kidney are
- Nephron
  - Neuron
  - Bile
  - Cell

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**UNIVERSITY OF SCIENCE & TECHNOLOGY, MEGHALAYA**



**[PART (A) : OBJECTIVE]**

Duration : 20 Minutes

Serial no. of the  
main Answer sheet

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Course : .....

Semester : ..... Roll No : .....

Enrollment No : ..... Course code : .....

Course Title : .....

Session : ..... 2017-18 ..... Date : .....

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**Instructions / Guidelines**

- The paper contains twenty (20) / ten (10) questions.
- Students shall tick (✓) the correct answer.
- No marks shall be given for overwrite / erasing.
- Students have to submit the Objective Part (Part-A) to the invigilator just after completion of the allotted time from the starting of examination.

Full Marks	Marks Obtained
20	

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*Scrutinizer's Signature*                      *Examiner's Signature*                      *Invigilator's Signature*