

BACHELOR OF PHYSIOTHERAPY
FIRST SEMESTER
HUMAN PHYSIOLOGY I
BPT – 102 [REPEAT]
[USE OMR SHEET FOR OBJECTIVE PART]

SET
A

Duration: 3 hrs.

Full Marks: 70

Time: 30 min.

Marks: 20

Objective

$$1 \times 20 = 20$$

Choose the correct answer from the following:

1. How many members are there in ABO Positive blood group system ?
 - a. 4
 - b. 3
 - c. 2
 - d. 5
2. How many balls are present in spirometry device
 - a. 1
 - b. 2
 - c. 3
 - d. 4
3. Erythropoiesis is formation of :
 - a. Platelets
 - b. WBC
 - c. RBC
 - d. All of the above
4. Which pair of ribs are called floating ribs?
 - a. 5th and 6th
 - b. 7th and 8th
 - c. 9th and 10th
 - d. 11th and 12th
5. Haemoglobin is thepresent in RBC
 - a. Carbohydrate
 - b. Proteins
 - c. Fat
 - d. Iron+Protein
6. Name the primary inspiratory muscle ?
 - a. Diaphragm
 - b. Scalene muscles
 - c. Sternocleidomastoid process
 - d. All
7. Ribosomes are present on the outer surface of :
 - a. Mitochondria
 - b. Smooth endoplasmic reticulum
 - c. Rough endoplasmic reticulum
 - d. Nucleus
8. It is the amount of air remaining in the lungs at the end of a normal exhalation
 - a. Tidal volume
 - b. Expiratory reserve volume
 - c. Functional residual capacity
 - d. Inspiratory reserve volume
9. How many pairs of Cranial nerves are there :
 - a. 10
 - b. 9
 - c. 8
 - d. 12

10. Dorsal and ventral respiratory group of neurons are present in.....
 - a. Medullary centres
 - b. Pontine centres
 - c. Anterior centres
 - d. Posterior centres
11. The long process of a Neuron is called
 - a. Fibril
 - b. Axon
 - c. Tail
 - d. Myelin
12. The area where myelin sheath is absent is called
 - a. Axoplasm
 - b. Functional residual capacity
 - c. Medullary centres
 - d. Nodes of Ranvier
13. Lactation is :
 - a. Milk formation
 - b. Saliva formation
 - c. Bile formation
 - d. Sweating
14. The other name of mitral valve is
 - a. Tricuspid valve
 - b. Bicuspid valve
 - c. Scupid valve
 - d. Micuspid valve
15. Melatonin is secreted by which of the following glands :
 - a. Adrenal
 - b. Pituitary
 - c. Pineal
 - d. Thyroid
16. Each muscle fiber is encased in a thin connective tissue layer of collagen and reticular fibers called
 - a. epimyseum
 - b. perimysium
 - c. endomysium
 - d. All
17. Chemoreceptors are present in which of the following :
 - a. Carotid
 - b. Aorta
 - c. Saphenous vein
 - d. Inferior vena cava
18. The plasma membrane of muscle fibres is called
 - a. Sarcolemma
 - b. Sarcoplasm
 - c. Axolemma
 - d. Axoplasm
19. Bile is secreted by :
 - a. The Kidneys
 - b. Liver
 - c. Spleen
 - d. Pancreas
20. Normal blood pressure of a human is -
 - a. 140/90mmhg
 - b. 120/80mmhg
 - c. 130/70mm hg
 - d. 110/60mmhg

(Descriptive)

Time : 2 hrs. 30 min.

Marks : 50

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

1. Write the physiology of the Parathyroid glands. 10
2. What is smooth muscles? Write the circulation and function of smooth muscles in details? 10
3. Describe Peristaltic movements of small intestine with a proper diagram 10
4. a. What is neuroglia and its classification? 5+5=10
b. Write about neuromuscular junction with diagram
5. Describe briefly: 5+5=10
 - a. Describe deglutition.
 - b. Describe Defaecation
6. What are the chambers of heart? Explain the circulation of heart in details. Add diagrams . 10
7. Write short notes on : 5+5=10
 - a. Myxoedema
 - b. Cretinism
8. What is oxygen haemoglobin dissociation curve? Write the causes of shift to left of oxygen haemoglobin dissociation curve. Give diagrams 10

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