

**MASTER OF PHYSIOTHERAPY  
FIRST SEMESTER  
BASICS MEDICAL SCIENCES  
MPT – 101**

**SET  
A**

[USE OMR SHEET FOR OBJECTIVE PART]

Duration: 3 hrs.

Full Marks: 70

**( Objective )**

Time: 30 min.

Marks: 20

*Choose the correct answer from the following:*

*1×20=20*

1. The other name of intrapulmonary pressure is called
  - a. Intraalveolar pressure
  - b. Intrathoracic pressure
  - c. Both
  - d. None
2. Which nervous system structure is associated with control of hunger?
  - a. Cerebrum
  - b. Hypothalamus
  - c. Cerebellum
  - d. Medulla
3. Normal amount of tidal volume is
  - a. 100-200ml
  - b. 200-300ml
  - c. 300-500ml
  - d. 500-800ml
4. There are ..... ventricles in the brain
  - a. 2
  - b. 3
  - c. 5
  - d. 4
5. Sensory aphasia are often associated with a ..... lesion
  - a. Wernicke's area
  - b. Broca's area
  - c. Parietal lobe
  - d. None of the above
6. Volume of Dead Space is
  - a. 110mL
  - b. 120mL
  - c. 140mL
  - d. 150mL
7. The other name of mitral valve is.....
  - a. Bicuspid valve
  - b. Tricuspid valve
  - c. Cuspid valve
  - d. All
8. The human heart contains how many semilunar valves
  - a. 1
  - b. 2
  - c. 3
  - d. 4
9. The human heart contains how many atrioventricular valves
  - a. 1
  - b. 2
  - c. 3
  - d. 4

10. How many balls are present in spirometry device
  - a. 1
  - b. 2
  - c. 3
  - d. 4
11. How many tonometers are taken for oxygen dissociation curve
  - a. 8
  - b. 9
  - c. 10
  - d. 11
12. Changes in personality and judgements are often associated with ..... lesion
  - a. Parietal lobe
  - b. Temporal lobe
  - c. Frontal lobe
  - d. Broca's area
13. Floating ribs are.....
  - a. 6<sup>th</sup> and 7<sup>th</sup>
  - b. 8<sup>th</sup> and 9<sup>th</sup>
  - c. 10<sup>th</sup> and 11<sup>th</sup>
  - d. 11<sup>th</sup> and 12<sup>th</sup>
14. Athetosis type movement are often identified with a ..... lesion
  - a. Basal ganglion
  - b. Midbrain
  - c. Thalamus
  - d. None of the above
15. Isometric relaxation period is a part of
  - a. Atrial systole
  - b. Atrial diastole
  - c. Ventricular systole
  - d. Ventricular diastole
16. Slow filling is a part of
  - a. Atrial systole
  - b. Atrial diastole
  - c. Ventricular systole
  - d. Ventricular diastole
17. Corpus callosum connects
  - a. Pons and medulla
  - b. Two cerebral hemispheres
  - c. Diencephalon and midbrain
  - d. Medulla and spinal cord
18. Which of the following parts of brain controls the body temperature and urge of eating?
  - a. Pons
  - b. Thalamus
  - c. Cerebellum
  - d. Hypothalamus
19. The common aperture through which 1<sup>st</sup> & 2<sup>nd</sup> ventricles of the brain opens into the 3<sup>rd</sup> ventricle is
  - a. Foramen magnum
  - b. Foramen ovale
  - c. Foramen Monro
  - d. None of the above
20. Parts of the brain that helps in regulation and maintenance of muscular activities
  - a. Cerebellum
  - b. Cerebrum
  - c. Midbrain
  - d. Medulla

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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. Describe the chambers of heart. Write the circulation of heart with diagram?              | 10 |
| 2. Describe the cervical plexus with diagram ?   | 10 |
| 3. Define Joint and its type . Write about the different types of synovial joint in details? | 10 |
| 4. What are the main descending tracts in spinal cord and what functions do they serve?      | 10 |
| 5. What is respiratory unit? Write about bucket handle and pump handle movement?             | 10 |
| 6. Describe the blood circulation of brain?  | 10 |
| 7. What is sesamoid bone? Write about the different layers of pluera in details?             | 10 |
| 8. What is Hypoxia? Write the different types of hypoxia in details?                         | 10 |

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