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DEPARTMENT OF PHYSIOTHERAPY
SCHOOL OF NURSING SCIENCES & ALLIED HEALTH**

**BPT 4th YEAR, ANNUAL EXAMINATION, MAY 2024
CARDIOPULMONARY PHYSIOTHERAPY (THEORY)
PAPER CODE: BPT – 463**

Time: 3 Hours

Maximum Marks: 75 Marks

(Write your Roll No. on top of the paper immediately)

All sections are compulsory. Draw diagrams wherever necessary. Give examples wherever necessary.

SECTION – A

MCQs and Very Short Answer Questions (All are compulsory) (15 × 1 Mark = 15 Marks)

Q1. What is the normal pressure used for endotracheal suction in adults?

- a) Less than 200 ^{cm}~~mm~~ Hg. c) More than 200 but less than 250 mm Hg.
b) Less than 200 mm Hg. d) More than 200 mm Hg.

Q2. Which of the following cannot possibly cause stridor?

- a) COPD b) Asthma c) Fibrosis of lungs
d) All of the above e) None of above

Q3. Which of the following locks out the patients' efforts to breathe?

- a) Controlled mandatory ventilation b) Pressure control mode
b) Assist control mode d) SIMV

Q4. Pleural effusions that have fluids indicating presence of inflammation or infection are categorized as:

- a) Transudative b) Simple c) Exudative d) Complex

Q5. The trachea bifurcates at level of:

- a) C5-C6 c) T4-T5
b) T1-T2 d) T10-T12

Q6. Which of the following cannot be measured by a PFT machine

- a) Vital capacity c) Forced expiratory volume
b) Residual capacity d) Peak expiratory flow rate

- Q7. The pump handle movement of the ribs increases the transverse diameter of the chest.
a) True b) False
- Q8. An endotracheal airway is used for negative pressure ventilation.
a) True b) False
- Q9. In case of a normal heartbeat, depolarization stimulus arises in _____.
- Q10. _____ wave represents depolarization of the atrias.
- Q11. The Bronchi derive innervations from the pulmonary branches of the _____ nerve.
- Q12. Write any four symptoms of tuberculosis.
- Q13. Write the full form of LVAD.
- Q14. What is Status Asthmaticus?
- Q15. How many generations of trachea-bronchial tree are present in the body?

SECTION - B

Answer any **THREE** of the following: (3 × 10 Marks = 30 Marks)

- Q1. Write a short note on restrictive lung diseases, their pathology and PFT changes.
- Q2. Write a short note on 6-minute walk test.
- Q3. Classify pneumonia and write its symptoms, pathology, and medical management.
- Q4. What is empyema? Discuss its pathology and physiotherapy management.

SECTION - C

Answer any **TWO** of the following: (2 × 15 Marks = 30 Marks)

- Q1. Discuss mechanism of breathlessness in a patient with COPD and how to correct it
- Q2. What are principles of aerosol therapy? Explain different types of humidifiers.
- Q3. What are the causes, symptoms and ECG changes seen in myocardial infarction?
