

**Avinashilingam Institute for Home Science and Higher Education for Women
Coimbatore- 641043.**

Continuous Internal Assessment Test –I February -2025

SEMESTER - V

Class: III UG

Major: (BPT)

Time: 2hours

Max. Marks: 60

22BPTC32- Physiotherapy in Cardio-Respiratory Conditions

Course Outcomes:

CO1: Understand the Basic anatomy, physiology of heart and lungs

CO2: Knowledge about taking assessment of cardiorespiration in physiotherapy

CO3: Knowledge about the Importance of physiotherapy intervention in ICU for cardiac and pulmonary disease.

CO4: Assessment of Cardiopulmonary rehabilitation and pediatric physiotherapy.

CO5: Understand the Pre and postoperative care for all surgery

Part A

Choose the correct answer

6x1=6

1. The following signs may indicate respiratory distress **CO2 K3**
A. Bradycardia B. Use of accessory muscles C. Decreased capillary refill time
D. Hypotension
2. Chronic bronchitis is defined as a productive cough lasting for at least how long **CO2 K3**
A. 2 weeks per year for 1 year B. 1 month per year for 2 years
C. 3 months per year for 2 consecutive years D. 6 months per year for 1 year
3. The primary treatment for idiopathic pulmonary fibrosis (IPF) **CO2 K3**
A. Corticosteroids B. Antifibrotic drugs (e.g., pirfenidone, nintedanib)
C. Beta-agonists D. Diuretics
4. Structure which prevents food from entering the trachea during swallowing **CO1 K3**
A. Epiglottis B. Larynx C. Pharynx D. Alveoli
5. During which phase of the cardiac cycle does the heart muscle contract to pump blood out of the ventricles. **CO1 K3**
a) Diastole b) Systole c) Repolarization d) Atrial relaxation
6. Ventilator modes which allows the patient to initiate breaths while the machine provides support for each breath **CO1 K3**
a) Continuous Mandatory Ventilation (CMV) b) Synchronized Intermittent Mandatory Ventilation (SIMV) c) Assist-Control Ventilation (ACV) d) High-Frequency Oscillatory Ventilation (HFOV)

Part – B

Answer should not exceed 400 words or two pages

3 x 6=18

7. a) Describe Active Cycle of Breathing Technique (or) **CO1 K2**
b) Explain pulmonary defence mechanisms **CO1 K2**
8. a) Describe Manual hyperinflation (or) **CO1 K2**
b) Tabulate normal and abnormal breath sounds **CO2 K2**
9. a) Applications of Glosso-pharyngeal breathing (or) **CO2 K2**
b) Explain briefly about exercise tolerance **CO3 K2**

Part C

Answer should not exceed 800 words or four pages 3x12=36

10. a) describe CVS investigation (or) **CO3 K2**
b) Write in detail about general cardiopulmonary assessment and PT management for a 45 year old chronic smoker posted for Segmentectomy. **CO3 K2**
11. a) Explain in detail coronary and pulmonary circulation (or) **CO4 K2**
b) Define Breathing exercise and its types **CO4 K2**
12. a) explain about the ventilator- types, principles and indication (or) **CO5 K3**
b) PT management for COPD **CO5 K2**

Copies : 33

NAME OF THE STAFF: Ms.KALESWARI