

**PARUL UNIVERSITY**  
**FACULTY OF PHYSIOTHERAPY**  
**BPT, Examination July - 2019**

**Year: 4**  
**Subject Code: 07101403**  
**Subject Name: Physiotherapy in Cardio-pulmonary Science**

**Date: 20/07/2019**  
**Time: 10.00 am to 1.00 pm**  
**Total Marks: 70**

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**Instructions:**

1. All questions are mandatory
2. Figures to the right indicate full marks.
3. Draw Diagram wherever necessary.
4. Write separate sections on separate answer sheets.

**SECTION- A**

**Q.1 Define ventilation. Elaborate types of ventilators & explain different modes of Mechanical Ventilators. (15)**

**OR**

**Q.1 A 52 year old executive, chronic smoker recently underwent Coronary Bypass Graft for triple vessel disease. Discuss post-operative rehabilitation and benefits of the same. (15)**

**Q.2 Write Short Notes (4 out of 5) (5 Marks each) (20)**

- (a) PNF in respiration.
- (b) Flutter device.
- (c) Physiotherapy management for Patient with Pneumothorax.
- (d) Cardiac Cycle.
- (e) Physiotherapy management in Mitral stenosis

**SECTION- B**

**Q.3 List the types of arterial disorders. Write in detail the assessment and management for arterial disorders. (15)**

**OR**

**Q.3 Discuss signs, symptoms, etiology and Physiotherapy management of a patient with COPD. (15)**

**Q.4 Write Short Notes (4 out of 5) (5 Marks each) (20)**

- (a) Nebulizers.
- (b) Active cycle of breathing technique.
- (c) Different methods of delivering Oxygen Therapy for patients.
- (d) Physiotherapy management in post operative VSD.
- (e) Mechanism of normal respiration.