

BACHELOR OF PHYSIOTHERAPY (BPT)
FOURTH YEAR EXAMINATION, SEPTEMBER-2026
PHYSIOTHERAPY IN CARDIOTHORACIC CONDITIONS
PAPER - III

[Time allotted: Three Hours]**[Max Marks: 70]**

Note: Attempt all questions
Draw suitable diagrams wherever necessary

A: Short answer questions:**(7 x 9 = 63)**

- Q. 1.** Write in brief about PT assessment and management of a COPD patient.
- Q. 2.** Write in brief about PT assessment and management of buerger's disease.
- Q. 3.** Write short notes on:
 a. Autogenic drainage
 b. Contraindications of exercise testing
- Q. 4.** Write in brief about various operating modes of mechanical ventilation.
- Q. 5.** Explain in detail about cardiac rehabilitation and its phases.
- Q. 6.** Write short notes on:
 a. Synchronized intermittent mandatory ventilation mode
 b. Deep vein thrombosis
- Q. 7.** Define humidification. Write in brief about indications and types of humidifiers.
- Q. 8.** Write a short note on factors affecting PFT values, indications and contraindications of Pulmonary function testing (spirometry).
- Q. 9.** Write in brief about atherosclerosis, its various risk factor and primary prevention in Cardiac rehabilitation.

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PAPER - III (MCQ)

Time allotted for MCQ - 15 minutes

B: MCQs (Single response type):

(½ x 14 = 07)

Select the most appropriate answer and encircle the alphabet against it.

1. Contraindications for head down postural drainage therapy includes:
 - a. Unstable spinal injury
 - b. Raised ICP
 - c. Hemodynamic instability
 - d. All of the above
2. Which amongst the following is/are the therapeutic benefit/s of regular exercise?
 - a. Good glycemic control
 - b. Reduced low density lipoproteins (LDL)
 - c. Increased high density lipoproteins (HDL)
 - d. All of the above
3. Among the following indications for stopping exercise testing includes:
 - a. Onset of angina
 - b. Drop in SBP of more than 10 mmHg with increase in workrate.
 - c. Failure of testing equipment
 - d. All of the above
4. Which of the following spirometric parameter is the best indicator of obstructive lung disease?
 - a. FEV3
 - b. FEF 25%-75%
 - c. FEV1
 - d. FVC
5. Long standing hypertension leads to _____. Choose the most true statement:
 - a. Eccentric LV hypertrophy
 - b. Concentric LV hypertrophy
 - c. Both a and b above
 - d. Right ventricular hypertrophy
6. Incentive spirometry is indicated in patients who are:
 - a. Conscious
 - b. Cooperative
 - c. Able to comprehend
 - d. All of the above
7. SpO2 and PaO2 stands for ____ and ____ respectively.
 - a. Partial saturation of oxygen and partial pressure of oxygen in arterial blood.
 - b. Saturation pressure of oxygen and partial pressure of oxygen in arterial blood.
 - c. Oxyhaemoglobin saturation and partial pressure of oxygen in arterial blood.
 - d. Oxyhaemoglobin saturation and partial pressure of oxygen in venous blood
8. Postural drainage therapy is contraindicated in following except:
 - a. Unstable spine injury
 - b. Head injury with increased intracranial pressure
 - c. Massive active hemoptysis
 - d. All of the above
9. Which amongst the following is not inspiratory muscle?
 - a. Sternocleidomastoid
 - b. Splenius capitis
 - c. External intercostal
 - d. Internal intercostal
10. Exercises aren't contraindicated in which of the following :
 - a. Unstable angina
 - b. Aortic stenosis
 - c. Recent MI
 - d. None of the above
11. Among following, which one is risk factor for atherosclerosis?
 - a. Obesity
 - b. Diabetes
 - c. Hypertension
 - d. All of the above
12. Among the following, select the correct answer for ABG report: pH- 7.20, PCO2- 65mmHg, PO2- 80 mmHg, HCO3- 24 mmol/l
 - a. Respiratory acidosis
 - b. Respiratory alkalosis
 - c. Metabolic acidosis
 - d. Metabolic alkalosis
13. Contraindication to percussion and manual vibration includes:
 - a. Pneumonia
 - b. Flail chest
 - c. Bronchiectasis
 - d. Cystic fibrosis
14. In spirometry, inspiratory capacity is sum total of:
 - a. Tidal volume + inspiratory reserve volume
 - b. Residual volume + inspiratory reserve volume
 - c. Closing volume + inspiratory reserve volume
 - d. None of the above