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Fourth B.P.TH. (2012) Examination, Summer
(Phase - III : All Other Remaining UG/PG Courses) - 2020
CARDIOVASCULAR - RESPIRATORY PHYSIOTHERAPY
(INCLUDING CRITICAL CARE)

Total Duration : 3 Hours

Total Marks : 80

SECTION - B & SECTION - C

- Instructions :**
- 1) Use **blue/black** ball point pen only.
 - 2) Do not write anything on the **blank portion of the question paper**. If written anything, such type of act will be considered as an attempt to resort to unfair means.
 - 3) **All questions are compulsory.**
 - 4) The number to the right indicates **full marks**.
 - 5) Draw diagrams **wherever necessary**.
 - 6) Distribution of syllabus in Question Paper is only meant to cover entire syllabus within the stipulated frame. The Question paper pattern is a mere guideline. Questions can be asked from any paper's syllabus into any question paper. Students cannot claim that the Question is out of syllabus. As it is only for the placement sake, the distribution has been done.
 - 7) Use a common answer book for all sections.

SECTION - A SAQ(50 Marks)

- I. Short answer questions (**any five** out of six) : [5 × 3 = 15]
- a) Effects of Pursed lip breathing.
 - b) Pacing of activities in a **breathless** patient.
 - c) Superficial burns.
 - d) Difference between huffing and coughing.
 - e) Intermittent claudication.
 - f) Phase I of Cardiac rehabilitation.

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2. Short answer questions (any five out of six) : [5 × 7 = 35]
- a) Describe principle of working of Jet nebuliser and ultrasonic nebuliser.
 - b) Management of burns post skin grafting.
 - c) Low flow oxygen therapy.
 - d) Patient education in varicose veins.
 - e) Indications and phases of autogenic drainage.
 - f) Complications post modified radical mastectomy.

SECTION - B LAQ(30 Marks)

3. Long answer questions (any one out of two) : [1 × 15 = 15]
- a) 40 year old male tailor was diagnosed of post kochs bronchiectasis Right lung. He has excessive sputum production with copious mucopurulent expectoration and breathlessness on exertion. He comes for pulmonary rehabilitation since a week. Write impairments, activity, participation limitation, short and long term management. [5 + 5 + 5 = 15]
 - b) 60 year old male farmer, a known COPD comes with acute exacerbation and respiratory failure. He is admitted to ICU and is on ventilator on SIMV mode. His X-ray shows development of pneumonia in right lower lobe. Write impairments, activity, participation limitation, short and long term management. [5 + 3 + 7 = 15]
4. Long answer question (any one out of two) : [1 × 15 = 15]
- a) 65 year old retired female nurse is diagnosed of stable angina and ventricular dysfunction. Ejection fraction 25%. She is a known diabetic. She has refused surgery due to the risk involved and has been on conservative management. Write impairment, activity, Participation limitation, short and long term management. [3 + 5 + 7 = 15]
 - b) 50 year old male bank manager is operated for angioplasty 2 days back. He had Inferior wall Myocardial Infarction a week back. He wants to get back to job at the earliest. He will need to drive for 1 hour to reach the bank. Write impairment, activity, Participation limitation, short and long term management. [3 + 5 + 7 = 15]

Fourth B.P.Th. (2012) Examination, Summer - 2021
CARDIOVASCULAR - RESPIRATORY PHYSIOTHERAPY
(INCLUDING CRITICAL CARE)

Total Duration : Section A + B = 3 Hours

Total Marks : 80

SECTION - A & SECTION - B

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 - 7) **Use** a common answerbook for **all** section.

SECTION-A SAQ (50 Marks)

1. Short answer question (**any five** out of six) : [5 × 3 = 15]
 - a) Define the terms humidification and Nebulization.
 - b) Enumerated different reasons for desaturation with exercise.
 - c) Enumerate various evaluation parameters' for peripheral arterial disorders.
 - d) Enumerate the list of precautions following radical mastectomy.
 - e) Radiological features seen in a tetralogy of fallot.
 - f) Grades of NYHA Scale.
2. Short answer question (**any five** out of six) : [5 × 7 = 35]
 - a) Discuss diaphragm recruitment and strengthening.
 - b) Risk assessment and stratification for coronary artery disease. *f.*
 - c) PEP devices - principal, classification & types.

- d) Plan PT management for a 43 year old male farmer with ILD, presenting with heterogenous opacities in the right lung, MMRC grade 2, dry cough & generalised weakness.
- e) Plan PT management for a 33 year old female receptionist with lymphoedema.
- f) Discuss physiotherapy management on ventilator.

SECTION-B LAQ (30 Marks)

3. Long answer question (any one out of two) : [1 × 15 = 15]

a) 34 year old male smoker, diagnosed with post PTB bronchiectasis, complains of breathlessness MMRC grade 3, productive cough with copious amounts of sputum. Chest radiograph shows heterogenous opacities all over lung fields with tracheal shift to left side. Discuss ICF & PT management for this case. [7+8=15]

b) 48 year old driver operated for right BK amputation 7 days back, due to peripheral arterial disease. Popliteal artery on the same side is grade 1+. On the left side the dorsalis pedis & posterior tibial are 2+. Discuss ICF & PT management for him. [7+8=15]

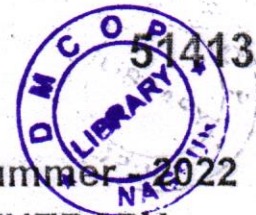
4. Long answer question (any one out of two) : [1 × 15 = 15]

a) 35 year old housemaid suffered accidental stove burns 3 days back affecting her upper chest, face & bilateral upper limbs. Discuss her ICF & PT management. Write the Wallace's Rule of Nine. [6+6+3=15]

b) 43 year old businessman has undergone CABG 20 days back. He is a known case of type II DM since 5 years on regulat medication with BMI 32. Plan his phase II cardiac rehabilitation program along with ICF for the same. Give grades of Obesity. [5+7+3=15]



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Fourth B.P.TH. (2012) Examination, (Phase - II) Summer 2022
CARDIOVASCULAR - RESPIRATORY PHYSIOTHERAPY
(Including Critical Care)

Total Duration : 3 Hours

Total Marks : 80

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SECTION "A" SAQ (50 Marks)

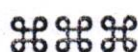
1. Short answer question (any five out of six) : [5 × 3 = 15]
- a) Three Abnormal breathing patterns
 - b) Write three advantages and disadvantages of cycle ergometer stress testing.
 - c) Write principle of PEP device and enumerate any 2 devices
 - d) Write any three electro therapeutic modalities with its parameters used for wound healing.
 - e) Rationale of Therapeutic positioning to alleviate dyspnea.
 - f) Write respiratory complications associated with mechanical ventilation.

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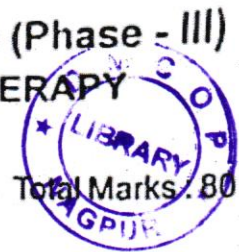
2. Short answer question (any five out of six) : [5 × 7 = 35]
- Explain physiotherapy management of Buerger's disease.
 - Explain methods of energy conservation
 - Write types of thoracic incisions and complications of thoracotomy.
 - Write physiotherapy management of acute exacerbation of asthma.
 - Enumerate complications of abdominal surgeries explain physiotherapy management of deep vein thrombosis.
 - Explain suctioning and bagging with respect to indication, procedure and precautions

SECTION "B" LAQ (30 Marks)

3. Long answer question (any one out of two) : [1 × 15 = 15]
- A 40 year old male, chemical engineer underwent segmentectomy for lung carcinoma (stage 1) 5 days ago. Discuss functional diagnosis, goals and physiotherapy management in detail.
 - A 35 year old man sustained inhalational burns while he was refueling stove. Other areas affected are right upper extremity portions of posterior and anterior trunk, lateral neck, right side of face and thigh and depth was deep partial thickness burn. Discuss functional diagnosis, goals physiotherapy management in detail.
4. Long answer question (any one out of two) : [1 × 15 = 15]
- A 34 year old female, school teacher is proposed for pacemaker and intracardiac defibrillator following cardiomyopathy. What would be preoperative and post implantation assessment and physiotherapy management
 - A 45 year old farmer, diagnosed case of destroyed lung secondary to tuberculosis. He complains of shortness of breath, chest pain, fever and cough since 4 days. Write functional diagnosis, goals and physiotherapy management in detail.



Fourth B.P.T.H. (2012) Examination, Summer - 2023 (Phase - III)
CARDIOVASCULAR - RESPIRATORY PHYSIOTHERAPY
(Including Critical Care)



Total Duration : 3 Hours

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SECTION - "A" SAQ (50 Marks)

1. Short answer question (any five out of six) : [5 × 3 = 15]
 - a) Enumerate three incisions used in thoracic surgery along with soft tissue dissected.
 - b) Write normal and abnormal grades of Ankle-Brachia! Index.
 - c) Write three relative and absolute contraindications for exercise stress testing.
 - d) Three types of bandages used for lymphoedema.
 - e) Enumerate three causes of altered ventilation perfusion ratio.
 - f) Write various methods of delivery of oxygen therapy.

2. Short answer question (any five out of six) : [5 × 7 = 35]
 - a) Describe Active Cycle of Breathing Technique. Give its physiological principle, indication and contraindication.
 - b) Write various methods of measuring exercise intensity.
 - c) Physiotherapy management following exploratory laparotomy.
 - d) Patient education for lifestyle disorders.
 - e) Breathing retraining.
 - f) Physiotherapy management following pneumonectomy.

SECTION - "B" LAQ (30 Marks)

3. Long answer question (any one out of two) : [1 × 15 = 15]

- a) A 12 years old boy is diagnosed as a case of an allergic bronchial asthma. He stays absent in winter and rainy season. since past one month his frequency of exacerbation has increased with 3 emergency visit. Discuss ICF with short term and long term management goals.
- b) A 50 years old female school teacher was admitted in hospital for chest pain with hypertension. He was conservatively treated. Discuss Functional Diagnosis and physiotherapy management.

4. Long answer question (any one out of two) : [1 × 15 = 15]

- a) A 60 years old male has undergone an unilateral above knee amputation 1 month back due to uncontrolled diabetes. He has to climb one floor and stays alone. Discuss ICF and short term and long physiotherapy management.
- b) A 45 year old school teacher is admitted as GBS and is on mechanical ventilator SIMV mode with PEEP6 and Fi O₂ of 0.4. Discuss his Impairments and ventilator management.



Fourth B.P.TH. (2012) Examination, Summer - 2025 Phase II
CARDIOVASCULAR-RESPIRATORY PHYSIOTHERAPY
(INCLUDING CRITICAL CARE)



Total Duration : 3 Hours

Total Marks : 80

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 - 7) **Use a common answerbook for all sections.**

SECTION - A (SAQ) (50 Marks)

1. Short Answer Questions (Solve **any 5** out of 6) : [5×3=15]
 - a) Indications of Intercostal drainage.
 - b) Physiological zones of ventilation.
 - c) Metabolic equivalent.
 - d) Write any 3 complications of Inhalation burns.
 - e) Hazards of oxygen therapy.
 - f) Write a note on energy conservation techniques.

2. Short Answer Questions (Solve **any 5** out of 6) : [5×7=35]
 - a) Discuss PNF techniques to improve lung expansion.
 - b) Describe factors affecting wound healing and modalities promoting wound healing.
 - c) Describe acute phase physiotherapy management in mechanically ventilated ARDS patient.
 - d) Describe assessment and physiotherapy management of peripheral arterial diseases.

- e) Discuss rationale of physiotherapy management after modified radical mastectomy.
- f) Write physiotherapy management for a child suffering from asthma since 2 years.

SECTION - B (LAQ) (30 Marks)

3. Long Answer Questions (Solve **any 1** Out of 2) : [1×15=15]

a) A 60 year old male patient is admitted for severe chest discomfort with pain referring to left shoulder, jaw and upper back. ECG revealed deep Q wave in lead II, III and aVF. 2D echo shows inferior wall hypokinesia and Ejection fraction of 40%. Write ICF, phase I physiotherapy management and Do's and Dont's post discharge. [5+5+5]

b) A 35 year old male, painter by occupation has undergone right lower lobe lobectomy two days back. He complains of pain at the suture site, cough and difficulty in expectorating. He has history of tuberculosis 7 years back and has completed AKT course. His preoperative pulmonary function tests shows FVC is 60%, FEV1 is 82%, FEV1/FVC is 94%. Write ICF, short term and long term goals with physiotherapy management. [4+4+7]

4. Long Answer Questions (Solve **any 1** Out of 2) : [1×15=15]

a) A 45 year old male driver by occupation, tobacco chewer is a diagnosed case of empyema, has intercostal drainage tube since 15 days. He complains of pain at the site of ICD, cough with expectoration and difficulty in doing his ADLs. Write ICF, short term goals and long term goals and physiotherapy treatment for the same. [3+4+8]

b) A 65 year old male is known case of diabetes, smoker and manual laborer by occupation has undergone below knee amputation 8 days back for non healing ulcer over the malleoli. He complains of severe pain at the amputation site and difficulty in walking due to decreased strength. Write ICF, short term and long term goals with physiotherapy management. [4+4+7]

