

[Total No. of Pages : 2



Fourth B.P.T.H. (2012) Examination, (Phase - III) Winter - 2021

CARDIOVASCULAR - RESPIRATORY PHYSIOTHERAPY (Including Critical Care)

Total Duration : 3 Hours

Total Marks : 80

- 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)

1. Short answer question (**any five out of six**) : [5 × 3 = 15]
 - a) Define activity pacing with examples.
 - b) Give rationale of Pursed lip breathing in COPD.
 - c) Enumerate complications related to long term mechanical ventilation.
 - d) Rationalize any 3 goals of pre operative physiotherapy.
 - e) Enumerate effect of long term bed rest on any 3 systems of body.
 - f) Give difference between CPAP and PEEP.

2. Short answer question (**any five out of six**) : [5 × 7 = 35]
 - a) Discuss in detail management of venous ulcers.
 - b) Explain various assistive devices used for airway clearance.

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- c) Explain importance of patient education with respect to control of bronchial asthma.
- d) Explain phase 1 and 2 of cardiac rehabilitation following valvular replacement.
- e) Explain physiological application of sitting upright as therapeutic position.
- f) Discuss physiotherapy management following exploratory laparotomy.

SECTION - "B" LAQ (30 Marks)

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

- a) 30 years old male has undergone left sided pneumonectomy for post TB bronchiectasis 7 days back. He currently complains of pain in suture area. His ICD drains air and serous liquid. Discuss functional diagnosis and management for him.
- b) 40 years old female has undergone right modified radical mastectomy 2 days back. She complains of neck pain and heaviness of right upper limb. VAS - 6/10. Her sleeves appear tight. What objective and subjective parameters would you consider to evaluate her. Give functional diagnosis and management.

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

- a) 40 years old air hostess complains of bilateral pedal oedema and pain in calf since 3 months. She has been in this profession since 10 years. She has started noticing spider webs in popliteal fossa. Discuss her evaluation and Give functional diagnosis and management for the same.
- b) 25 years old fashion designer sustained full thickness burns on her face, neck and chest 2 days back. She is having difficulty in breathing. Her face is swollen. What can be likely complications. Give functional diagnosis and management.



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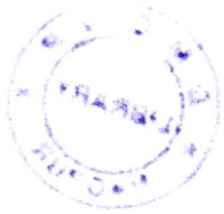
Total Duration : 3 Hours

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) Rationale of purse-lip breathing in COPD.
 - b) Compare and contrast six minute walk test and shuttle walk test.
 - c) Define one MET and state its value.
 - d) Any three differences between aerobic and anaerobic exercise.
 - e) Effects of smoking on pulmonary function.
 - f) Enumerate any three goals of P.T. management in Radical Mastectomy.



2. Short answer question (any Five out of Six) : [5 × 7 = 35]

- a) What is "Neurophysiologic facilitation of respiration"?
- b) What will be the content of Ergonomic and energy conservation advice to be given to a patient with left lung bronchiectasis with unimpaired Right lung.
- c) Therapeutic exercise program to strengthen respiratory muscles.
- d) Write a note on inhalation burns and its management.
- e) Write a note on positioning of the patient in ICU giving examples.
- f) Write a note on pneumothorax and describe the precautions and contra-indications and physiotherapy management of a patient with Inter-costal drainage.

SECTION - "B" LAQ (30 Marks)

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

- a) A fifty year old male head clerk, chain smoker, non-vegetarian, diabetic has come with chief complaint of pain on walking for five minutes and is unable to continue walking after 10 minutes. His legs appear thin & leg skin dry. Discuss the clinical reasoning for the impairments state the complications which he is likely to face giving reason along with their preventive measures if any. Discuss the management in details.

[5 + 3+7]

- b) A 23 year old mother of year old child suffered from 40% burns over bilateral thigh & legs

i) Discuss the impairments with clinical reasoning

[5]

ii) Physiotherapy for each impairment

[7]

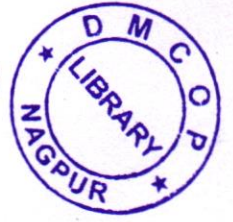
iii) Describe various stages of wound healing

[3]

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

- a) A seven year old girl diagnosed as having bronchial asthma since one year is referred for physiotherapy. This condition has affected her attendance at school as she gets breathless during acute exacerbation and her mother carries her bag to school every day. Her parents are worried about sending her to play with her friends and insist on playing indoor sedentary games. Her teachers also do not allow her to participate in outdoor play due to fear of breathlessness. The girl however wishes to play. She is prescribed SOS salbutamol inhaler and she is absolutely fine between acute episodes which come once a month.
- i) Discuss the content of parent and teacher counseling [5]
- ii) Plan rehabilitation program for this girl. [7]
- iii) Which outcome measures will show her improvement following rehabilitation? [3]
- b) A 50 year old is admitted in ICU with dyspnoea and severe chest pain. ECG shows ST segment elevation and T wave inversion in 2,3 and AVFHe is thrombolysed and referred for physiotherapy care. Discuss ICF and plan short term and long term physiotherapy management. [5 + 5+5]





Fourth B.P.TH. (2012) Examination, (Phase - III) Winter - 2024
CARDIOVASCULAR - RESPIRATORY PHYSIOTHERAPY
(Including Critical Care)

Total Duration : 3 Hours

Total Marks : 80

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- 1) Use **black** ball point pen only.
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 - 3) **All** questions are **compulsory**.
 - 4) The number to the **right** indicates **full** marks.
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SECTION - A SAQ (50 Marks)

1. Short Answer Questions (Solve **any five** out of six) [5×3=15]
 - a) Define Metabolic syndrome.
 - b) State the x-ray findings of COPD.
 - c) Enumerate the different grafts used in CABG.
 - d) Enumerate any one quality of life questionnaire used in COPD, heart failure and peripheral arterial disease.
 - e) Enumerate signs & symptoms of respiratory distress in pediatrics.
 - f) Explain importance of peripheral muscle strengthening in COPD.

2. Short Answer Questions (Solve **any Five** out of six) [5×7=35]
 - a) Discuss physiotherapy management of peripheral arterial disorders.
 - b) Explain the relevance of ABG, PFT and X-ray in decision making for goal setting in case of COPD.
 - c) Explain any 3 PNF techniques for facilitation of respiration.
 - d) Explain various airway clearance techniques.
 - e) Describe phase 2 of cardiac rehabilitation for a 45 yr old executive following PTCA for LAD who would like to participate in sports.
 - f) Discuss various equipments used in ICU.



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SECTION - B LAQ (30 Marks)

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

- a) A 35 years old male is diagnosed as post TB bronchiectasis. He is recently married and complains of foul smelling sputum for 2 days. He is unable to lie on right side because of increased expectoration. he is embarrassed to meet people and feels his health is not good. Discuss functional diagnosis & physiotherapy management for the same.
- b) 55 year old cook, right handed dominant has undergone with right modified radical mastectomy 2 days back. Discuss functional diagnosis & physiotherapy management for the same.

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

- a) A 35 year old male, diagnosed with infective atypical pneumonia of bilateral lung. He is on CMV mode of ventilator at Fi O₂ of 0.6 and PEEP of 10 since 3 days. He has been referred for physiotherapy. Discuss functional diagnosis & physiotherapy management.
- b) 12 year old boy has sustained superficial partial thickness burns on bilateral upper limb and torso (anteriorly) 2 days back. He has pain 6 on VAS at rest. He is unable to turn or move his limbs. Give functional diagnosis & management for the same.

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