



51413

Fourth B.P.Th. (2012) Examination, Winter 2018
CARDIOVASCULAR-RESPIRATORY PHYSIOTHERAPY
(Including Critical Care)

Total Duration : Section A + B = 3 Hours

Total Marks : 80

SECTION – A and SECTION – B

- 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 answerbook for **all** Sections.

SECTION – A SAQ (50 Marks)

1. Short answer question (**any five** out of six) : (5×3=15)
 - a) Describe two Positive Expiratory Pressure (PEP) devices.
 - b) Diaphragmatic breathing exercises.
 - c) Write radiological findings of emphysema.
 - d) Rule of nine for burns evaluation.
 - e) Write characteristics of an ideal stump.
 - f) Ankle brachial index.

2. Short answer question (**any five** out of six) : (5×7=35)
 - a) Write precautions and contraindications for postural drainage in a neonate.
 - b) Write absolute and relative contraindications of exercise tolerance test.
 - c) Explain positioning strategies to prevent deformities in patients with burns.

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- d) Write physiotherapy management of bronchiectasis.
- e) Write physiotherapy management of Deep venous thrombosis.
- f) Explain role of physiotherapy in diabetes mellitus.

SECTION – B LAQ (30 Marks)

3. Long answer question (**any one** out of two) : (1×15=15)
- a) A 30 year old farmer is suffering from breathlessness, chest tightness, unproductive cough and audible wheezing. He is diagnosed as acute exacerbation of asthma. Write its functional diagnosis, with short term and long term Physiotherapy management. (5+5+5)
 - b) A 50 year old female school teacher has infected venous ulcers in lower 2/3rd of lower leg and managed conservatively. Write its functional diagnosis and physiotherapy management and do's and don't. (5+5+5)
4. Long answer question (**any one** out of two) : (1×15=15)
- a) A 60 year old shopkeeper has underwent CABG 1 week back and gives history of hypertension and diabetes mellitus. Write functional diagnosis and cardiac rehabilitation in detail. (5+10)
 - b) A 52 year old nurse underwent thoracoplasty 2 days back, she was suffering from tuberculosis. Write its functional diagnosis and short term and long term physiotherapy management. (5+5+5)
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SECTION – A SAQ (50 Marks)

1. Short answer question (**any five** out of six) : (5×3=15)
 - a) Write any 6 contraindications for postural drainage.
 - b) Define acapella flutter device and write its use.
 - c) Write two types of inspiratory muscle training
 - d) Borg CR10 scale
 - e) Three special tests to assess arterial insufficiency.
 - f) Hazards of suctioning

2. Short answer question (**any five** out of six) : (5×7=35)
 - a) Write physiotherapy management of hypertension.
 - b) Explain physiotherapy management following Radical Mastectomy.
 - c) Explain role of splinting in burn injuries.



- d) Discuss pediatric pulmonar rehabilitation program for children with Bronchial Asthama.
- e) Write prevention and physiotherapy management of deep venous thrombosis.
- f) Write complications and post operative management following right lower lobe lobectomy.

SECTION – B LAQ (30 Marks)

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

- a) A 50 year old man with left transtibial amputation referred for physiotherapy 1 week after amputation. He is sole earning member with 4 members in family and has history of diabetes and gangrene. Discuss ICF and physiotherapy management for the same.
- b) A 45 year old male patient, chronic smoker since last 30 years, stays on 2nd floor with no lift facility, is admitted with chief complaints of dyspnoea on performing activities of daily living and productive cough since past two days. Discuss functional diagnosis, short term and long term Physiotherapy management.

(5+5+5=15)

4. Long answer question (**any one** out of two) :

(1×15=15)

- a) A 60 year old male shopkeeper by occupation ,has anginal pain, breathlessness, anxiety and admitted in ICU 3 days back. He is chronic alcoholic, obese and hypertensive. Discuss ICF and Cardiac rehabilitation for the same.
- b) A 40 year old female, working in cotton mill since past 15 years was admitted for complain of grade II dyspnoea with diagnosis of ILD. Discuss ICF. Write physiotherapy goals and management for the same.



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SECTION – A SAQ (50 Marks)

1. Short answer question (**any five** out of six) : (5×3=15)
 - a) Describe PEP mask and its use.
 - b) Write the need for humidification in intubated patient.
 - c) Write any three exercises to increase thoracic wall mobility.
 - d) Describe 3 energy conservation techniques for breathless patient.
 - e) Forced expiratory techniques.
 - f) 3 modifiable and 3 non-modifiable cardiac risk factors.

2. Short answer question (**any five** out of six) : (5×7=35)
 - a) Compare and discuss the effects of ACBT and Autogenic drainage in bronchiectasis patients.
 - b) Phase II cardiac rehabilitation.
 - c) Short term Goals of management for a patient on ventilator.
 - d) Classification of Burns and discuss commonly seen deformities in burn patients.
 - e) Complications of bed immobility in ICU patient.
 - f) Ankle Brachial index and its significance.

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SECTION – B LAQ (30 Marks)

3. Long answer question (**any one** out of two) : (1×15=15)
- a) 30 years old electrician has electrical burns 2 days back while working and falls from a height. Is admitted to the hospital with 3 ribs fractured on right side. He is unconscious on admission and is put on ventilator. Write impairments, activity and participation limitation and short term management. (5+5+5=15)
- b) 50 years old male sweeper, diagnosed as COPD since 10 years. He comes with increased symptoms since 2 days. Presents with breathlessness at rest and cough with thick expectoration. He is given oxygen with nasal prongs and medication. Write impairments, activity and participation limitation and short and long term management. (5+3+7=15)
4. Long answer question (**any one** out of two) : (1×15=15)
- a) 50 years old male businessman had angina since 1 month. Angiography showed major blocks in LAD and other 2 arteries. He was operated for CABG 2 days back. Grafts taken from LIMA, RIMA and radial artery. He needs to drive to work everyday. Write impairments, activity and participation limitation and short term and long term management. (5+3+7=15)
- b) A 25 years old male, chronic smoker, complains of intermittent claudication and cold feet with sweating. Write functional diagnosis and physiotherapy management. (7+8=15)
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SECTION – A
(SAQ)

(50 Marks)

1. Short answer question (any five out of six) : (5×3=15)
 - a) Ankle brachial index.
 - b) Enlist risk factors for coronary artery disease.
 - c) Write any 6 complications of suctioning.
 - d) Humidification and its uses.
 - e) Goals of management of Restrictive lung diseases.
 - f) Effects of smoking on pulmonary function.

2. Short answer question (any five out of six) : (5×7=35)
 - a) Discuss common deformities of upper limb and lower limb seen in burns and the anti-deformity positioning strategies for the same.
 - b) Physiotherapy management in Burger's disease.
 - c) Describe modes of ventilator and discuss the role of physiotherapy management in ICU.
 - d) Physiotherapy management following Below knee amputation.
 - e) Discuss complications of Pulmonary Surgeries.
 - f) Rationale of giving Active cycle of breathing technique in Bronchial Asthmatic patients.

P.T.O.

SECTION – B
(LAQ)

(30 Marks)

3. Long answer question (**any one** out of two) :

(1×15=15)

a) A 50 year old male, labourer by occupation, known case of COPD is admitted with acute exacerbation. He is a chronic smoker, stays with his wife and two children and is the only earning member of his family. His PFT shows moderate obstruction with good reversibility. Discuss ICF and Physiotherapy management in acute and chronic stages.

(5+5+5=15)

b) A 55 year old widow, works as a cook and stays on second floor with no lift facility. She is a known diabetic. She complains of dull aching pain in bilateral lower limb which increases with sustained standing and swelling which increases by the end of the day. She also presents with dilated veins in both her lower limbs. Discuss ICF, Physiotherapy management and preventive foot care for her condition.

(5+7+3=15)

4. Long answer question (**any one** out of two) :

(1×15=15)

a) A 60 year old male, working as a manager in a bank, has undergone CABG for triple vessel disease 3 days back. He is a chronic smoker, known hypertensive and his BMI is 30 kg/m². Discuss ICF, Phase 1 and Phase 2 Cardiac rehabilitation and suggest life style modifications for him.

(5+7+3=15)

b) A 45 year female patient, teacher by occupation, married with 2 kids underwent radical mastectomy 15 days back, has complains of mild oedema on the operated arm with shoulder joint restriction. Discuss the ICF and long term Physiotherapy management and prosthesis for her.

(5+7+3=15)

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SECTION – A SAQ (50 Marks)

1. Short answer question (**any five** out of six) : (5×3=15)
 - a) Characteristics of deep partial thickness burns.
 - b) Any three incisions for abdominal surgery.
 - c) Hazards of suctioning.
 - d) Huffing and coughing techniques.
 - e) Three special tests to assess arterial insufficiency.
 - f) Clinical features of Tetralogy of Fallots.

2. Short answer question (**any five** out of six) : (5×7=35)
 - a) Phase one Cardiac Rehabilitation following Myocardial Infarction.
 - b) Physiotherapy management following below knee amputation.
 - c) Physiotherapy management of venous ulcers.
 - d) Discuss importance of pre-operative chest physiotherapy in major Abdominal surgeries.
 - e) Active cycle of breathing technique.
 - f) Physiotherapy management of right lower lobe bronchiectasis.

P.T.O.



SECTION – B LAQ (30 Marks)

3. Long answer question (**any one** out of two) :

(1×15=15)

a) A 50 year old male patient, chronic smoker since last 30 years, stays on 2nd floor with no lift facility, is admitted with chief complaints of dyspnea on performing activities of daily living and productive cough since past two days. His Pulmonary Function test shows moderate obstructive, he has mild hypoxaemia and hypercapnia. Discuss functional diagnosis, short term and long term Physiotherapy management. (5+5+5)

b) A 45 year old female patient, a farm labourer by occupation underwent right modified radical mastectomy two days back. She is married with two children. She is one of the earning members of the family and wishes to resume her farm activities. Discuss her functional diagnosis, short term and long term Physiotherapy management.

4. Long answer question (**any one** out of two) :

(1×15=15)

a) A 13 year old boy sustained burn injury during firecracker explosion. He suffered from inhalational burns with 30% neck, chest and hand partial thickness burns. Discuss functional diagnosis, short term and long term physiotherapy management. (5+5+5)

OR

b) A 40 year old male labourer, diagnosed case of hydated cyst of right lower lobe, underwent right lower lobe lobectomy two days back via a posterolateral thoracotomy. He is right hand dominant, is currently having cough with expectoration with an intercostal drain insituation. Discuss Functional diagnosis, short term and long term Physiotherapy management.



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SECTION – A SAQ (50 Marks)

1. Short answer question (**any five** out of six) : (5×3=15)
 - a) Enumerate three electrotherapy modalities used to treat infected wound.
 - b) Enumerate three incisions used in an abdominal surgery.
 - c) Chyne-Stokes respiration.
 - d) Borg's CR10 Scale.
 - e) Bruce protocol.
 - f) Radiological findings of pleural effusion.

2. Short answer question (**any five** out of six) : (5×7=35)
 - a) Write two special test to assess venous insufficiency.
 - b) Physiotherapy management following gastrectomy.
 - c) Physiotherapy management following radical mastectomy.
 - d) Physiotherapy management for glycemic control in diabetes mellitus.
 - e) Write importance of life style modification in prevention of ischemic heart diseases.
 - f) Explain cardio-respiratory changes associated with aging and fitness program.

P.T.O.



SECTION – B LAQ (30 Marks)

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

- a) A 55 years old male, farmer, chronic alcoholic, has suffered from myocardial ischemia 2 days back.

Discuss

- i) Functional diagnosis. 5
ii) Physiotherapy management in detail. 10

OR

- b) A 35 years old male laborers is diagnosed as a middle lobe bronchiectasis with chief complaint of cough with expectoration and breathlessness. Write

- i) Functional Diagnosis. 5
ii) Short term and Long Term goals. 5
iii) Physiotherapy management. 5

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

- a) A 30 years old male has sustained 60% burns involving neck, chest and both arms. He is admitted in an ICU. Write

- i) Functional Diagnosis. 5
ii) Physiotherapy management. 5
iii) Role of positioning and splinting. 5

OR

- b) A 25 years old male, chronic smoker, complains of intermittent claudication and cold feet with sweating. Write

- i) Functional diagnosis.
ii) Physiotherapy management.