

Fourth B.P.TH. (2012) Examination, (Phase - II)
Summer - 2022

COMMUNITY PHYSIOTHERAPY

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 answerbook for all sections.

SECTION "A" SAQ (50 Marks)

1. Short answer question (any five out of six) :

[5 × 3 = 15]

- a) Principles of Community Based rehabilitation.
- b) Work Conditioning.
- c) Enumerate theories of aging.
- d) Role of anganwadi worker in Community Based Rehabilitation.
- e) Enumerate exercises contraindicated during pregnancy.
- f) Post partum blues.

2. Short answer question (any five out of Six) :

- a) Age related changes in respiratory system.
- b) Importance of physiotherapy in post menopausal women.
- c) Purpose and principles of ergonomics.
- d) Functioning of Primary Health Care centers.
- e) Contributing factors for industrial injury.
- f) Diastasis recti.

SECTION "B" LAQ (30 Marks)

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

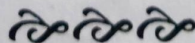
[1 × 15 = 15]

- a) Write Physiological changes during pregnancy. Explain any five discomforts during pregnancy and its physiotherapy management. [4+5+6]
- b) 6 years old CP child with locomotor disability has been identified during a screening at a village. His educated parents intend to send him school. Enumerate the local resources to be used and plan community based rehabilitation. [5+10]

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

[1 × 15 = 15]

- a) Write your strategy to approach the rural community for health education on role of Physiotherapy in Primigravidae. Explain your community management for the same. [5+10]
- b) Define industrial therapy. The industrial rehabilitation team. Explain job analysis and its purpose. [2+3+7+3]



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CARDIOVASCULAR - RESPIRATORY PHYSIOTHERAPY
(Including Critical Care)

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Total Marks : 80

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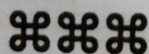
SECTION "A" SAQ (50 Marks)

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.

2. Short answer question (any **five** out of six) :
- 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 and 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.



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NEURO PHYSIOTHERAPY

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SECTION - "A"SAQ (50 Marks)

1. Short answer question (**any five** out of six) : [5 × 3 = 15]
 - a) Define Extrinsic & Intrinsic Feedback.
 - b) Explain the Sunderland's classification of nerve injuries.
 - c) Explain Autonomic Dysreflexia.
 - d) State any 3 principles of the Rood's Approach.
 - e) What is Apraxia? Enumerate its types.
 - f) Enumerate 3 clinical features of Multiple Sclerosis.

2. Short answer question (**any five** out of six) : [5 × 7 = 35]
 - a) Describe in detail physiotherapy management for a Flaccid Upper extremity in a stroke patient.
 - b) Describe Spastic Hemiplegic Gait. Describe physiotherapy management for the same.
 - c) Describe the Physiotherapy management of the Carpal Tunnel Syndrome.
 - d) Describe the physiotherapy management of Bradykinesia and rigidity in Parkinson's disease.
 - e) Write a note on vestibular rehabilitation.
 - f) Describe Various Foot orthoses used for Cerebral Palsy children.

SECTION - "B" LAQ (30 Marks)

3. Long answer question (any one out of two) : [1 × 15 = 15]
- a) A 42 year old photographer had RTA resulting in fracture of T9-T10 vertebrae with complete Spinal cord injury. A decompression-stabilization surgery was done 1 month back. He can sit without support, and can transfer himself in wheel chair. He has a spastic bladder. His financial condition is good, his studio is in his own home on first floor.
- i) Describe his impairments with clinical reasoning [7]
 - ii) Describe the PT management for expected type and mode of Ambulation. [8]
- b) A 68 year old lady complains of tremors in fingers, fall while turning, slowness of movement since last 2 years, recently she also has freezing episode while speaking and walking. She is a retired teacher and continues taking classes for underprivileged slum children. She is been on medication for the same. She doesn't have any other co-morbidity.
- i) Explain the short term and long term goals. [4]
 - ii) Explain fall prevention strategies. [4]
 - iii) Write the PT management in details. [7]
4. Long answer question (any one out of two) : [1 × 15 = 15]
- a) A 2 year old hypotonic Cerebral Palsy girl comes for rehabilitation. She can roll on either side and come to sitting with moderate support. Her parents are both uneducated and from low socio economic strata.
- i) Describe the impairments with clinical reasoning. [7]
 - ii) Describe short and long term Physiotherapy management with emphasis on trunk control and ambulation. [8]
- b) A 21 year old man had a fall from tree on out stretched had, causing traction injury 3 weeks back. Since then he has difficulty in, making a fist, straightening his elbow and move his thumb. He has loss of sensation on medial side of forearm and arm. On examination the muscle power is less than grade 2.
- i) Identify which part of brachial plexus is involved. [2]
 - ii) Explain the short term and long term goals. [6]
 - iii) Describe the PT management with emphasis on orthosis prescription. [7]



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MUSCULOSKELETAL PHYSIOTHERAPY

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SECTION "A" SAQ (50 Marks)

1. Short answer question (**any five** out of six) : [5 × 3 = 15]
 - a) Define Painful arc syndrome.
 - b) Enumerate any 3 differences between open and closed chain exercises.
 - c) Three indications for Taping.
 - d) Mention 3 impairments in a patient with plantar fasciitis.
 - e) Define Lower crossed syndrome.
 - f) Enumerate 3 dysfunctions of temporomandibular joint.

2. Short answer question (**any five** out of six) : [5 × 7 = 35]
 - a) Structural and functional limitations in young patient with Ankylosing Spondylitis.
 - b) Physiotherapy management of unilateral Carpal Tunnel Syndrome.

- c) Indications and contraindications for applying Manual Therapy.
- d) Physiotherapy management of acute Tennis elbow.
- e) Write physiotherapy management during maximal and moderate protection phase post total knee replacement surgery.
- f) Explain in detail outcome measures used to assess pain.

SECTION "B" LAQ (30 Marks)

3. Long answer question (any one out of two) : [1 × 15 = 15]
- a) A 30 year old, sportsman playing recreational badminton suffers from anterior rotator cuff muscles strain, on right side. Plan long term and short goals and physiotherapy management in details. [7 + 8 = 15]
 - b) A 50 year old farmer had below knee amputation of left leg following gangrene. Plan short term, long term goals & Physiotherapy management. [5 + 10 = 15]
4. Long answer question (any one out of two) : [1 × 15 = 15]
- a) A 25 year old farmer had a fall from tree and suffered L1 vertebral fracture, for which he has been operated with pedicular screws and referred for physiotherapy. Plan short term, long term goals & Physiotherapy management. [5 + 5 + 5 = 15]
 - b) A 48 year old woman, housemaid, complains of insidious onset of pain in the right shoulder joint and diagnosed as periarthrititis of the shoulder. She is also a known case of diabetes mellitus. Discuss functional diagnosis with clinical reasoning and management. [7 + 8 = 15]

