Fourth B.P.TH. (2012) Examination, Summer - 2025 Phase - II

MUSCULOSKELETAL PHYSIOTHERAPY

Total Duration : 3 Hours | Total Marks : 80

Instructions :
1) *Use **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 Questions (Solve **any 5** out of **6**) : **[5×3=15]**

a) Write a note on open and closed chain exercises.

b) Thee uses of cervical collar.

c) Write a note on coxa vara and coxa valga.

d) What is Q-angle?

e) Explain grades of ligament sprains.

f) Write a short note on normal end feel.

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2. Short Answer Questions (Solve **any 5** out of **6**) : [5×7=35]

a) Explain pain management after below knee amputation.

b) Explain use of Slum test and its testing procedure.

c) Explain rationale and procedure for balance training after ankle injury.

d) Explain pain management for adhesive capsulitis.

e) Explain strengthening exercises for mechanical neck pain.

f) Short term physiotherapy management after L1 spinal compression fracture.

SECTION - B (LAQ) (30 Marks)

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

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a) 40 years old female, living single, having back pain since 8 days. Pain is 7/10 on VAS, she complains of pain during all activities of daily. She has history of heavy weight lifting 8 days back. She has tingling numbness in right lower limb along with weakness in foot and ankle muscles, her MRI shows posterolateral disc bulge at L4-L5 level. She is hypertensive with diabetic and worried for her recovery. Based on above information.

Explain Functional diagnosis with clinical reasoning. [5]

Plan short term and long term physiotherapy management. [10]

b) A 45 year old male patient has undergone left IM nailing for fracture tibia shaft before 8 days. Patient complains of pain (7/10 VAS) and restricted range of motion at knee, Hip and ankle, swelling is present on lateral aspect of knee and Ankle joint. MMT of Left LL muscle is 4/5 except quadriceps and hamstrings which were 3/5. He is financially stable and has caring family. She has uncontrolled diabetes and recently diagnosed with High Blood pressure. Based on the above information.

Explain function diagnosis with clinical reasoning. [5]

Plan short term and long term Physiotherapy Management. [10]

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Fourth B.P.TH. (2012) Examination, Summer - 2025 Phase - II
NEURO PHYSIOTHERAPY

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) Give classification of nerve injuries.
b) Explain uses and principle of Dynamic cock up splint.
c) Define Aphasia. Enumerate its types.
d) Enumerate signs of increased Intra cranial pressure.
e) Enumerate types of Spina Bifida.
f) Cardinal features of Parkinson's Disease.

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2. Short Answer Questions (Solve **any 5** out of 6) : **[5×7=35]**

a) Discuss the clinical features and physiotherapy management of Klumpke's paralysis.
b) Write the role of feedback in neurological rehabilitation. Describe different types of feedback. Explain any one in detail.
c) Write a note on Hemiplegic gait thorough all phases of recovery.
d) Write down the clinical features and physiotherapy management of Duchhen's Muscular Dystrophy.

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e) What is post polio residual paralysis. Describe the clinical features and physiotherapy management of PPRP complications.

f) What is Alcoholic Neuropathy? Describe the physiotherapy management of the same.

SECTION - B (LAQ) (30 Marks)

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

a) Write down ICF with clinical reasoning for a 45 year old male having complains of abdominal pain and viral fever followed by weakness of upper limb and lower limb since 10 days. Presently the patient has also started feeling breathing difficulties. The patient is admitted in the ICU and diagnosed as Gullian Barrey Syndrome. Write the short term and long term goals with Physiotherapy management. [5+7+3]

b) A 25 year old male, a manual labourer, is admitted to the hospital having complaint of inability to move both lower limbs. He had a fall from second floor of the building and diagnosed with T10 vertebral fracture a month ago.

i) Discuss the ICF with clinical reasoning. [5]

ii) Discuss the short term and long term goals with physiotherapy management. [10]

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

a) A 7 years old male child have a difficulty in walking and doing ADLS with his right hand. He had a history of delayed milestones developement. He is known case of spastic hemiplegic cerebral palsy. Mention ICF and physiotherapy management in detail.

b) Write ICF and physiotherapy management with long and short term goals for 29 year old unmarried female executive working in a multinational company diagnosed as a case of multiple sclerosis 2 years back. She is suffering from a second relapse. She was discharged from the hospital 1 week back. She is moderately functionally dependent in transfers and hygiene. [7+8



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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.

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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]**



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Fourth B.P.TH. (2012) Examination, Summer - 2025 Phase - II
COMMUNITY PHYSIOTHERAPY

Total Duration : 3 Hours | Total Marks : 80

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3) **All questions are compulsory.**
4) The number to the **right** indicates **full** marks.
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7) **Use a common answerhook for all sections.**

SECTION - A (SAQ) (50 Marks)

1. Short Answer Questions (Solve **any 5** out of 6) : [5×3=15]
   a) Enlist the principles of Community-Based Rehabilitation (CBR).
   b) Enlist different tests for assessing incontinence in females.
   c) What is the role of an NGO in the Rehabilitation Team?
   d) Enlist the health care delivery levels.
   e) Enumerate the musculoskeletal changes occurring in the elderly.
   f) Define obesity and list the types.

2. Short Answer Questions (**Solve any 5** out of 6) : [5×7=35]
   a) Define aerobic exercise. Explain the circuit training type of aerobic exercise.
   b) Discuss workstation exercises for a sedentary worker.
   c) Enumerate the components of fitness assessment in the geriatric population.
   d) Describe the pre-placement worker care spectrum.
   e) Enlist the antenatal program goals. Discuss the structure of the class.
   f) Discuss the differences between IBR and CBR.

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SECTION - B (LAQ) (30 Marks)

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

a) A 38-year-old woman comes to you with complaints of inability to control urination, especially during coughing & during housework and lifting weights. She has 2 children and is from an affluent family. Presently, she has been referred to you for physiotherapy management. Give her functional diagnosis with clinical reasoning as per ICF. Also, write her PT Management with treatment goals. [5+10]

b) A 75-year-old woman came to the department with complaints of bilateral knee pain and difficulty in climbing up and down stairs. She is diagnosed case of osteoporosis and is on calcium supplements. Give her an evaluation with an exercise intervention program with a rationale. [5+10]

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

a) A 27-year-old girl has been referred to your physiotherapy clinic for weight reduction. She is 5ft, 3 inches and weighs 68 kgs and has a waist circumference of 99 cms. Her body fat percentage is 50%, and YMCA sit and reach test values are -3 cms. She can do 12 modified push-ups and 34 squats in a minute. She is getting married in 3 months and has started crash dieting for her weight loss. Comment on her fitness status and write about her fitness management program. [5+10]

b) A tailor complains of recurrent pain in both lower limbs. She has been working for the past 20 years and is also the primary caregiver in the house. She has noticed a gradual increase in difficulty in walking, and at present is unable to walk for more than 15 minutes without taking a rest. Bilaterally, her SLR is negative. Which other evaluation needs to be done? Plan a treatment program based on the evaluation findings. [5+10]



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

a) 28 years old female is a fast bowler in state level cricket team presents with right shoulder pain 5/10 on VAS, clunk and weakness while playing with no history of shoulder injury in past. Her scapular and core muscle are weak (4/5). Anterior Apprehension Test is positive, she is fearful to bowl and looking for upcoming comitative event scheduled within 8 months. Based on above information.

Explain Functional diagnosis with clinical reasoning. [5]

Plan short term and long term Physiotherapy Management. [10]

b) A 60 year old male retired government servant had sustained distal end radius fracture on right side which was managed conservatively with plaster cast for 6 weeks. At clinic he presents with complaints of stiffness of wrist, hand and radio ulnar joint, weakness of forearm muscles. Pain (6/10 on VAS) is with of upper extremity. He is right hand dominant, obese and diabetic which is under control. Based on above information.

Explain Functional diagnosis with clinical reasoning. [5]

Plan short term and long term Physiotherapy Management. [10]

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