FR. MULLER

- MAY 2003

(Pages : 2)

RC—2590

FINAL YEAR B.P.T. DEGREE EXAMINATION, 2003

PHYSIOTHERAPY IN ORTHOPAEDICS

Time : Three Hours

Maximum : 100 Marks

Your answers shall be specific to the questions asked.
Draw neat and labelled diagrams wherever necessary.

I. Long Essays : (Answer any *four*)

1 Write down the clinical features, pathology and physiotherapy management of Osteoarthritis of knee.

2 What is ankylosing spondylitis ? Write down the clinical features, investigations and physiotherapy management of ankylosing spondylitis.

3 Explain in detail the physiotherapy management for a patient with fracture of surgical neck of humerus.

List down the complications underlying it.

4 Write down the clinical signs and symptoms for rotator cuff injury.

Explain in detail the physiotherapy management following a rotator cuff tear.

5 A 40 year old coolie comes to you with the history of an anterior disc prolapse at $L_4 - L_5$, $L_5 - S_1$ level.

What will be your management ? Add a note on ergonomic advice.

(7 + 3 = 10 marks)

[4 × 10 = 40 marks]

II. Short Essays : (Answer any *eight*)

6 Explain a confirmatory clinical test to confirm carpel tunnel syndrome. Write down the Physiotherapy management following surgical reduction of carpel tunnel syndrome.

(1 + 4 = 5 marks)

7 Principles of tendon transfer.

8 Physiotherapy management following quadriceps plasty.

9 List down the zones of hand with the help of a diagram.

10 What is a Swan neck deformity ? Explain.

11 Define Craleazzi fracture. Explain briefly the Physiotherapy management following a surgical intervension for the same.

(1 + 4 = 5 marks)

12 Explain wrist drop and its management.

13 What is Torticollis ? Explain in brief Physiotherapy management for right torticollis.

(1 + 4 = 5 marks)

14 What is the procedure to check out an AK Prosthesis. (above knee prosthesis).

15 Criteria for diagnosing RA.

[8 × 5 = 40 marks]

Turn over

III. Short Answers :

16 What is Strain ?
17 Define Arthroscopy.
18 Drop arm test.
19 What is delayed union ?
20 Define Avascular necrosis.
21 Define Spondylolysis.
22 Two differences between RA (Rheumatoid Arthritis) and AS (Ankylosing spondylitis).
23 What is intrinsic plus hand ?
24 What is a Milwankees' brace ?
25 What is normal scapulo humeral rhythm ?

(10 × 2 = 20 mar

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RC—2591

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FINAL YEAR B.P.T. DEGREE EXAMINATION, 2003

PHYSIOTHERAPY IN GENERAL MEDICINE

Three Hours

Maximum : 100 Marks

Your answers shall be specific to the questions asked.
Draw neat and labelled diagrams wherever necessary.

I. Long Essays : (Answer any *four*)

1 What do you understand by "Pulmonary Rehabilitation" ? Explain the pulmonary rehabilitation in a case of chronic obstructive pulmonary disorder.

(2 + 8 = 10 marks)

2 Describe the clinical features of osteoarthritis of the knee.

Discuss the physical therapy management of a 45 year old lady having osteoarthiritis of the knees.

(4 + 6 = 10 marks)

3 What are the risk factors for the development of arteriosclerosis ? Write about the use of Buergers exercises in case of peripheral vascular disease.

4 A 60 year old male patient has an attack of myocardial infarction. He is been managed conservatively. Plan a rehabilitation protocol for this patient.

5 A 25 year old man has developed pleural effusion on the right side. An intercostal drainage is introduced. Outline the physical therapy management for him.

(4 × 10 = 40 marks)

II. Short Essays : (Answer any *eight*)

6 What is Reynaud's disease ? What ergonomic advice should be given to these patients ?

7 Enumerate various causes of Oedema. What physiotherapy techniques can be used to reduce oedema which has occurred due to venous stasis ?

8 Differentiate between the clinical features of obstructive and restrictive lung diseases. Also add a note on how breathing exercises differ in these two conditions.

(3 + 2 = 5 marks)

9 What are the various points to be considered while treating a patient with psychiatric disorder ?

10 Explain the role of physiotherapy in the management of Acne Vulgaris.

11 Write in brief the management of hand in a case of Rheumatoid Arthritis.

12 Describe any *two* techniques of PNF in respiration.

13 Physiotherapy management of Alopecia.

14 What is Bronchial Asthma ? What is the use of pursed-lip expiration in the same ?

15 Mention the complications of pulmonary T.B. Write physiotherapy management in short for any *one* of them.

(8 × 5 = 40 marks)

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Turn over

III. Short Answers :

16 Define Angina pectoris.

17 Any *three* risk factors for Atherosclerosis.

18 Clinical features of Vitamin B-12 deficiency.

19 Any *two* uses of nebulisers.

20 Define Paradoxical breathing.

21 Give types of pneumothorax.

22 Define CPAP.

23 In treatment of Psoriasis with UVR, give dosage and uses.

24 Splint used for swan neck deformity.

25 Three exercises for cervical spondylosis.

(10 × 2 = 20 ma

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FINAL YEAR B.P.T. DEGREE EXAMINATION, 2003

PHYSIOTHERAPY IN GENERAL SURGERY INCLUDING CARDIOTHORACIC CONDITIONS

Time : Three Hours Maximum : 100 Marks

Your answers shall be specific to the questions asked.
Draw neat and labelled diagrams wherever necessary.

I. Long Essays : (Answer any *four*)

1 Explain in detail about the physical rehabilitation of a post lobectomy patient having had tuberculosis.

2 Explain in detail about the physical therapy and counselling approach towards a 25 year old lady sustained with 40 % burns on lower extremity and anterior abdomen following a fire accident.

3 Elaborate a pulmonary rehabilitation programme for a patient, who underwent decortication surgery. Briefly mention home exercise programme.

4 Discuss the importance of physical exercises in cancer patients.

5 Describe the postnatal exercises ? Explain its effects and uses in preventing postnatal complications in mothers.

(4 × 10 = 40 marks)

II. Short Essays : (Answer any *eight*)

6 Explain the physical therapy for stress incontinence.

7 Define humidification and types of humidification. Explain about the procedure and complications.

8 Explain the procedure of conducting suctioning technique through tracheostomy tube for clearing the secretions from lung fields. Also mention the precautions associated with it to prevent danger.

9 Explain various splints and jackets used for patients suffered with burns to prevent contractures and deformity.

10 Enumerate the physiotherapy of a patient with Hansen's disease, who has had a Paul Brant's many tail tendon transfer in right upper extremity.

11 Explain the physical therapy of a patient, who had midline sternotomy, to prevent pain and to enhance chest wall compliance.

12 Describe the facilities required for a cardiac rehabilitation unit.

13 Explain any *three* important exercise tolerance tests.

14 Explain four physical examination procedure done on chest wall to identify thoracic abnormalities.

15 Define Ulcer. Briefly describe the physical therapy for decubitus ulcer on sacrum.

(8 × 5 = 40 marks)

III. Short Answers :

16 What is pulmonary bullac ?

17 Write any *two* volumes of Huff and its use.

18 What is flail chest ?

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19 Scientific rationale for Postural drainage.

20 Write two modalities that can be used against hypertrophied scar.

21 What is pelvic diastasis ? Mention its cause.

22 Types of cyanosis and its features.

23 What is P.D.A. ?

24 Name the incision and location on body for Appendisectomy.

25 Degrees of burn.

(10 × 2 = 20 ma

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FINAL YEAR B.P.T. DEGREE EXAMINATION, 2003

PHYSIOTHERAPY IN NEUROLOGY AND NEUROSURGERY

Three Hours — Maximum : 100 Marks

Your answers shall be specific to the questions asked.
Draw neat and labelled diagrams wherever necessary.

I. Long Essays : (Answer any *four*) (10 × 2 = 20 marks)

1 Discuss the physiotherapy management of a 40 year old man having Parkinson's disease.

2 Classify head injuries.
Discuss the physiotherapy management of a patient admitted to the ICU following head injury.
(3 + 7 = 10 marks)

3 Discuss the physiotherapy management of a patient with middle cerebral artery infarction who has entered the spastic stage.

4 What are the clinical features seen in a patient with T2 spinal segment injury ? How would you manage such a patient ?

5 Discuss the physiotherapy management of a patient having multiple sclerosis.
(4 × 10 = 40 marks)

II. Short Essays : (Answer any *eight*)

6 What is claw hand ? Discuss the management of claw hand.

7 Discuss the clinical features of Amyotrophic lateral sclerosis.

8 Tests for early detection of brain damaged children.

9 Enumerate the types of neurogenic bladder. Discuss the management of autonomous bladder.

10 Describe various reflexes at brain stem level.

11 Management of sensory ataxia.

12 Management of poliomyelitis in the acute stage.

13 What is synergy ? Describe various components of flexor synergy in upper limb seen in patients with hemiplegia.

14 Discuss the signs and symptoms of a patient with brain tumours.

15 E.M.G. findings in myopathic disorders.
(8 × 5 = 40 marks)

III. Short Answers :

16 What is Bells phenomenon ?

17 Kernigs sign - technique and significance.

18 Trick movements - definition.

19 Diffuse axonal injury - definition.

20 Trendlenburg sign.

21 Uses of N.C.V. test (any *two*).

22 List signs and symptoms of raised ICP.

23 What is Babinski sign ? Give its significance.

24 What is global aphasia ?

25 Splint used in wrist drop.
(10 × 2 = 20 marks)

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FINAL YEAR B.P.T. DEGREE EXAMINATION, 2003

COMMUNITY BASED REHABILITATION

Time : Three Hours

Maximum : 80 Marks

Your answers shall be specific to the questions asked.
Draw neat and labelled diagrams wherever necessary.

I. Long Essays : (Answer any *two*)

1 What are the problems of the disabled in urban community ?
2 List the Out Reach Programmes in Rehabilitation services, describe any *one* of them.
3 Discuss Institute-based rehabilitation versus Community based one.

(2 × 10 = 20 marks)

II. Short Essays : (Answer any *eight*)

4 Low Cost Aids and applications.
5 Barriers in employment of disabled.
6 Define Survey and give its importance.
7 Need for Integrated Schools.
8 Need for Health Education for women.
9 Physical problems of old age.
10 Importance of parental counselling.
11 List the National Developmental Programs.
12 Hurdles in CBR.
13 The need for Geriatric centres.



(8 × 5 = 40 marks)

III. Short Answers :

14 Give *two* social problems of aging.
15 What are Day Care Centre ?
16 Role of Placement Officer.
17 Importance of epidemiology.
18 What are the modes of spread of poliomyelitis ?
19 What is Morbidity ?
20 What is Prevalence and Incidence ?
21 What are extended care facilities ?
22 Two precautions to be taken by a person with sensory impairment.
23 What is post-polio syndrome ?

(10 × 2 = 20 marks)

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FINAL YEAR B.P.T. DEGREE EXAMINATION, 2003

ALLIED THERAPEUTICS

Three Hours | Maximum : 80 Marks

Your answers shall be specific to the questions asked.
Draw neat and labelled diagrams wherever necessary.

I. Long Essays : (Answer any *two*)

1. Describe in detail "Health Related Physical Fitness".
2. What are the objectives of preparticipation evaluation and explain the same.
3. Define Magnetotherapy and write in detail about treatment with magnets. (2 + 8 = 10 marks)

[2 × 10 = 20 marks]

II. Short Essays : (Answer any *eight*)

4. "Carbohydrate supercompensation." Explain.
5. Role of relaxation in stress management.
6. Entrinsic factors contributing to sports injuries.
7. Explain "SAID" principle.
8. Give physiological effects of Acupuncture.
9. What are the indications for mud therapy ?
10. Explain blood doping.
11. Assessment of co-ordination and exercises for the same.
12. What is a Balanced diet ? Explain.
13. Role of exercise in control of obesity.

(8 × 5 = 40 marks)

III. Short Answers :

14. Explain Qi (Chi).
15. What is endurance training ?
16. What is oxygen debt ?
17. Define Flexibility.
18. Anterior Drawer's test for the Ankle.
19. Define Trigger Point Acupuncture.
20. Two uses of "Warm up".
21. Two examples each for open and closed chain exercises.
22. Define "Eustress".
23. Define Sprain.

(10 × 2 = 20 marks)

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Total No. of Pages : 2] **Code No.RC-2919**

4th. B.P.T. EXAMINATION OF NOVEMBER - 2003
PHYSIOTHERAPY IN ORTHOPAEDICS - THEORY

Time : 3 Hours] *[Max. Marks : 100*

Your answers shall be specific to the questions asked.
Draw neat and labelled diagrams wherever necessary

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I. ***Long Essays:*** **(Attempt any four):** [4 x 10 = 40]

1) Write the clinical features of Ankolysing Spondylitis. Discuss in detail its Physiotherapeutic management.

2) A twenty-year female tennis player comes to you after 8 weeks of immobilisation in a long-leg plaster cast with a diagnosis of post-surgical repair of the Achilles tendon secondary to a complete rupture of the tendon. Discuss the physiotherapy management of this patient, including assessment.

3) Discuss in detail the physiotherapy management of a 28-year old female soccer player who has been referred to you by an orthopaedic surgeon after a transverse hairline fracture of the right patella. The patient has been referred to you 6 weeks post immobilisation in a cylindrical cast (Note: the patient played soccer at college level and would preferably like to return to active sports).

4) What are the causes of cervical pain? Discuss in detail the physiotherapeutic management in a case of a 22-year female hair-stylist who has been referred to you with a diagnosis of Whiplash injury.

Note: There are no root signs.

5) A 55-year old female patient recently underwent open reduction internal fixation secondary to an inter-trochanteric fracture of the right hip. Post-operatively she developed breathing problem secondary to fat embolism. Discuss the PT (physiotherapy) management of this patient during her hospital stay and post-discharge. (Note: Prior to her surgery she lived an active social life).

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II. ***Short Essays:*** **(Answer any eight)** [8 x 5 = 40

6) Describe delayed onset of muscle soreness (DOMS).

7) Describe the signs and symptoms of mallet finger?

8) Describe the management of de quervains tenosynovitis.

9) Write short notes on the Las` egue test.

10) Write short notes on the Thomas test.

11) Describe briefly the Physiotherapy management of fracture of the dist end of the radius post-immobilisation.

12) Describe "Hallux valgus" and its physiotherapy management.

13) Write short notes on the thoracic outlet syndrome (TOS).

14) Write short notes on cervical Spondylitis.

15) Describe briefly the Physiotherapy management of a patient who ha sustained a hip adductor strain.

III. ***Short Answers:*** **(Attempt all questions):** [10 x 2 = 20

16) Describe the function of the annular ligament.

17) What is TENS? What is the theory behind its use?

18) What does a positive drop-arm test signify? Explain.

19) Write short notes medial tibial stress syndrome.

20) What is tarsal tunnel syndrome?

21) Briefly describe functional electrical stimulation (FES).

22) What is an antalgic gait - describe.

23) What is V.I.C?

24) Give 4 examples for muscles commonly spared in polio attack.

25) What is metatarsalgia?

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Code No.RC-2920

[Total No. of Pages : 2]

4th. B.P.T. EXAMINATION OF NOVEMBER - 2003
PHYSIOTHERAPY IN GENERAL MEDICINE - THEORY

[Time : 3 Hours] [Max. Marks : 100

Your answers shall be specific to the questions asked.
Draw neat and labelled diagrams wherever necessary

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I. *Long Essays:* (Answer any four) [4 x 10 = 40]

1) What is lung abscess? How physiotherapy helps in early rehabilitation of patient?
2) Write about assesment and P.T. management of Ankylosing Spondylitis?
3) 60 years old diabetic patient had an attack of myocardial infraction plan the long term rehabilitation protocol.
4) Write about signs & symptoms of arterial disease and explain technique and use of Buerger's exercise.
5) Write about occupational lung disorders and physiotherapy management in general.

II. *Short Essays:* (Answer any eight) [8 x 5 =40]

6) Define emphysema. Write aims of P.T. management.
7) Uses of contrast bath in case of peripheral vascular diseases.
8) Pulmonary function test and its uses.
9) Physiotherapy management of deep vein thrombosis of leg vein.
10) Physiotherapy management for atrial seatal defect.
11) Treadmill - its significance in cardiac rehabilitation.
12) Explain 2 methods of PNF in respiration.
13) Describe PT management of psoriatic arthritis.
14) Short essay on prevention of deformities of hand in R.A.
15) What is alopecia? Write PT management for the same.

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III. ***Short Answers:*** [10 x 2 = Total

16) What is rickets?

17) Four uses of nebulisers.

18) Difference between Coughing and Huffing.

19) What are the causes for productive cough.

20) What is atherosclerosis.

21) What is leucoderma.

22) Types of oedema.

23) What is restrictive lung disease.

24) Types of Gangrene.

25) Clinical features of vitamin - A defiency?

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Total No. of Pages : 2]

Code No.RC-2921

IVth B.P.T. EXAMINATION OF NOVEMBER , 2003
PHYSIOTHERAPY IN GENERAL SURGERY INCLUDING CARDIOTHORACIC SURGERY - THEORY

Time : 3 Hours] [Max. Marks : 100

Your answers shall be specific to the questions asked.

Draw neat and labelled diagrams wherever necessary.

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I) *Long Essays: (Answer any Four)* [4 x 10 = 40]

1) Describe physiotherapy management at donor and recepient site following burn over chest wall.

[Donor - Anterior surface of thigh. Recepient site - anterior chest wall]

2) Write about antenatal programme for 25 years old pregnant lady?

3) Write down the principles of tendon transfer. Physiotherapy management for tendon transfer for foot drop.

4) Elaborate the physiotherapy management for stress incontinence in pregnancy.

5) Define Ulcer. "Physiotherapy management for decubitus Ulcer".

II) *Short Essays: (Answer any eight)* [8 x 5 = 40]

6) Physiotherapy management for first degree prolapse of Uterus.

7) Physiotherapy management for Cholecystectomy.

8) List down the effects of anaesthesia on Cardio-respiratory system.

9) Short essay on manual hyper inflation techniques.

10) List down the different thoracic incisions indicated for cardiac surgery.

11) Write about secondary complication of Burn injury.

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9) Enumerate any 2 causes of foot drop. How will you manage a p having foot drop.

10) Discuss the clinical features in syringomyelia.

11) Enumerate various types of neurogenic bladder. Discuss the manage of automatic bladder.

12) Strength - Duration Curve - Normal & abnormal findings.

13) Discuss the signs and symptoms of a patient with Brain tumors.

14) Describe the various reflexes at Brain-Stem level.

15) Discuss the clinical features of a patient with Amyotrophic L Sclerosis.

III) Short Answers (Answer all): [10 x 2=

16) What is ulnar paradox.

17) Transient Ischaemic Attack - Definition.

18) Investigations in muscular dystrophy.

19) Apraxia - Definition and 2 types.

20) Brocas Aphasia - Describe.

21) Sedden's classification of PNI

22) Trick Movements - Definition.

23) List signs and symptoms of Raised ICP.

24) Uses of EMG. (any 2)

25) Kernigs sign - technique & significance.

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Total No. of Pages :2]

Code No.RC-2923

IV B.P.T. EXAMINATION OF NOVEMBER-2003
COMM. BASED REHABILITATION - THEORY

Time : 3 Hours] *[Max. Marks : 80*

Your answers shall be specific to the question asked.
Draw neat and labelled diagrams wherever necessarry.

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Long Essays: *(Answer any two)* [2 x 10 = 20]

1. What is CBR? Describe the role of the various workers in a CBR program.
2. Discuss role of community workers in prevention of disability.
3. Discuss the architectural barriers faced by the disabled in an urban setting.

Short Essays: *(Answer any Eight)* [8 x 5 = 40]

4. Mobile campo for villages - Importance.
5. Home exercise program for prevention of disability in leprosy.
6. Role of community workers in early detection of development defects in children.
7. Screening rural area for gynaecological disorders in women.
8. Role of a family with a disabled patient.
9. Architectural Barriers encountered by hemiplegics in rural areas.
10. Role of social worker in CBR.
11. Aids to improve level of independence.
12. Role of Primary Health Centres.
13. Self-Help Groups.

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Short Answers: [10 x 2 = 20]

14. Define Handicap.
15. Name 2 special schemes / facilities offered by the Government for the disabled.
16. What is play therapy?
17. List 2 objectives of a home care program in a child of Duchenne Muscular Dystrophy.

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18. Name 2 wheelchair modifications that enhances independ
19. Name any 2 National Health Programmes.
20. What is Community reintegration
21. Give importance of communication in CBR.
22. Explain importance of screening.
23. 2 objectives of pre-vocational training.

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Total No. of Pages : 2]

Code No.RC-2924

IV B.P.T. EXAMINATION OF NOVEMBER, 2003

ALLIED THERAPEUTICS - (Theory)

Time : 3 Hours] [Max. Marks : 80

Your answers shall be specific to the questions asked.

Draw neat and labelled diagrams wherever necessary.

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I) ***Long Essays : (Answer any two)*** [2 x 10 = 20]

1) Define physical fitness. Discuss the benifit of physical fitness.

2) Discuss the pharmacological agents used to improve the sports performance.

3) Define Yoga. Classify asanas with examples.

II) ***Short Essays : (Answer any eight)*** [8 x 5 = 40]

4) Explain the role of sugar in physical performance.

5) Define Magnetotherapy. What is the effects of north and south pole on the body.

6) Benefits of physical fitness.

7) Basal metabolic rate - Importances.

8) Minerals and Vitamins - Significance.

9) Discuss mudtherapy.

10) Explain Qi (chi)

11) Types of Obesity.

12) Diet prescription to improve exercise performance.

13) Explain the role of carbohydrates in performance.

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III) Short Answers (Answer all) [10 x 2 = 2

14) Glycolysis

15) Carbohydrate loading.

16) 2 uses - Biofeedback

17) Premeal Game - Define.

18) Function of Fat in our body.

19) Effects of Warm-up exercise.

20) List the meridians in our body.

21) Trigger point - Accupuncture

22) Importance of Flexibility.

23) Respiratory quotient (RQ) for carbohydrates.

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