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RC—2157

FINAL YEAR B.Sc. (PHYSIOTHERAPY) DEGREE EXAMINATION, 2004

BIOMECHANICS OF HUMAN MOTION

Maximum : 100 Marks

Time : Three Hours

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

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

1. Describe the kinetics and kinematics of knee complex including Screw-home phenomena.
2. Explain the kinematics of gait.
3. Describe the principles of hydrotherapy. Explain how these properties are used in physiotherapy.
4. Using a diagram, describe the arches of the hand and explain how they help in hand function.
5. What is equilibrium ? Explain the various types of equilibrium giving examples of human body.

(4 × 10 = 40 marks)

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

6. What is a force ? Describe the qualities of a force. (2 + 3 = 5 marks)
7. Describe a power grip, giving the muscle work involved.
8. What is base of support ? How is it related with mobility and stability ?
9. Write the mechanical principles of pulleys and pulley systems used in physiotherapy.
10. Explain the function of intervertebral disc.
11. Write short note on :
    (a) Spurt and Shunt muscles.
    (b) Tonic and phasic muscles.

(2 + 3 = 5 marks)

12. What are the types of goniometers, explain the principles of the goniometers ?
13. Explain the close and loose pack position of a joint.
14. Describe the lever of second order, with reference to human body give examples. State the uses of this type of lever.
15. Explain Lumbo-Pelvic rhythm.

(8 × 5 = 40 marks)

III. Short Answers :

16. Define Hooke's law.
17. Describe Angle of pull.
18. 2 uses of a balance board.
19. Define Active and Passive insufficiency.
20. Describe *two* functions of Menisci.

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21 Define Cadence and stride length.

22 Describe isometric and isotonic muscle contraction.

23 Define coefficient of friction.

24 Define Flexibility and give one use of the same.

25 Define potential energy give an example.

(10 × 2 = 20 marks)

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RC—2169

FINAL YEAR B.Sc. (PHYSIOTHERAPY) DEGREE EXAMINATION, 2004

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 What is "Rotator cuff" ? Give assessment and management of rotator cuff injuries.

2 Explain management of fractures around knee joint.

3 Describe rheumatoid hand and its management.

4 Explain physiotherapy management of below knee amputations and prosthetic fittings.

5 Explain management of ankylosing spondylitis.

(4 × 10 = 40 marks)

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

6 Tennis elbow.

7 Management of cervical spondylosis.

8 Give management of CTEV.

9 What is Torticollis ? Write brief physiotherapy management.

10 Write a note on healing of fracture.

11 Capsulitis of shoulder joint.

12 Explain the common deformities seen in polio patient.

13 Brief note on ankle sprain.

14 Indications for bone grafting.

15 Principles of Tendon transfers.

(8 × 5 = 40 marks)

III. Short Answers :

16 Exs. for spondylolisthesis.

17 Uses of wrist drop splints.

18 Ergonomic advise for back pain.

19 Extension lag.

20 Causes of avascular necrosis of head of femur.

21 Causes of Volkman's ischaemic contracture.

22 Contraindications for total hip replacement patient.

23 What is Carpal tunnel syndrome ?

24 Define Perthes' disease.

25 Uses of arthroscopy.

(10 × 2 = 20 marks)

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RC—2170

FINAL YEAR B.Sc. (PHYSIOTHERAPY) DEGREE EXAMINATION, 2004

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. 40 years salesman developed varicose viens. Write physiotherapy management including ergonomic advice.
2. What are the indications for postural drainage ? Write about postural drainage positions for right lower lobe.
3. Write about assessment and physiotherapy management of osteoarthritis of hip joint.
4. 58 years old patient suffered an attack of myocardial infraction plan a cardinal rehabilitation program.
5. Outline a respiratory assessment for COPD.

(4 × 10 = 40 marks)

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

6. Write about physiotherapy management for psoriasis.
7. Aims of physiotherapy management in treating psychiatry patients.
8. Bicycle ergometer—its significance in cardiac rehabilitation.
9. Write a short note on Buergers exercise.
10. Describe the care of anaesthetic foot in case of PVD.
11. Write physiotherapy management for alopaecia.
12. Explain the significance of a positive straight leg raise test.
13. What is Rickets ? Write its clinical features.
14. What are the clinical features of Vitamin B_{12} deficiency ?
15. Postural drainage position for right medial basal segments.

(8 × 5 = 40 marks)

III. Short Answers :

16. Define Lung abscess.
17. Four uses of breathing exercises.
18. Two uses of contrast bath in peripheral vascular diseases.
19. What is pleural effusion ?

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20 What is Leucoderma ?

21 Write any *four* risk factors for atherosclerosis.

22 Technique of giving percussion on chest.

23 Name the inspiratory and expiratory muscles.

24 What is paradoxical breathing ?

25 What is atrial septal defect ?

(10 × 2 = 20 marks)

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RC—2171

FINAL YEAR B.Sc. (PHYSIOTHERAPY) DEGREE EXAMINATION, 2004

PHYSIOTHERAPY IN NEUROLOGY AND NEUROSURGERY

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. Define Polyneuropathy. Discuss the physiotherapy management of a patient having Gullian-Barre syndrome.
2. What is cerebral palsy ? How will you assess a patient with cerebral palsy ?
3. Define Ataxia. How will you manage a patient having sensory ataxia ?
4. Discuss the clinical features and physiotherapy management of a patient with T-12 spinal cord segment lesion.
5. Describe the gait of a hemiplegic patient. Suggest a suitable gait training programme for a patient with hemiplegia since 3 months.

(5 + 5 = 10 marks)

[4 × 10 = 40 marks]

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

6. Discuss in detail management of a patient having wrist drop following radial nerve injury at the radial groove.
7. Enumerate various types of neurogenic bladder. Discuss the management of autonomous bladder.
8. How will you manage a patient having a foot drop following injury to the common peroneal nerve ?
9. Define spasticity. Give any *four* differences between spasticity and rigidity.
10. Enumerate various functions of basal ganglia.
11. Discuss the principles of Bobath technique (approach).
12. Discuss the management of a patient with head injury in the acute phase.
13. E.M.G. findings in neurogenic disorder.
14. Discuss the clinical features in motor neuron disease.
15. Describe the clinical features in Duchennes muscular dystrophy.

(8 × 5 = 40 marks)

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III. Short Answers :

16 Kernigs sign – technique and significance.

17 Describe claw hand.

18 Demerits of SDC.

19 Transient Ischaemic attack — definition.

20 Apraxia-definition and two types.

21 Trick movements – definition.

22 Describe Hemiballismus.

23 What is motor aphasia ?

24 List the signs and symptoms of raised ICP.

25 Rhombergs sign.

(10 × 2 = 20 mark

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RC—2172

FINAL YEAR B.Sc. (PHYSIOTHERAPY) DEGREE EXAMINATION, 2004

PHYSIOTHERAPY IN GENERAL SURGERY

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 Describe the physiotherapy intervention for a 25 year old male who has undergone skin grafting following burns over left thigh and calf region.

2 Define Prolapse of uterus. Outline the degrees of prolapse and describe role of physiotherapy for each degree.

3 Describe the pre and post physiotherapy care following splenectomy.

4 List the muscles used in tendon transfer for a total claw hand. Describe the role of physiotherapy in this case.

5 Explain the physiotherapy management for a patient on a ventilator in an ICU setting.

(4 × 10 = 40 marks)

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

6 Give five exercise for a case of lobectomy.

7 Give the signs/symptoms of inhalation injury.

8 Draw a diagram showing the common incisions seen in abdominal surgeries and identify what each one is used for.

9 Give *five* uses of antenatal exercise program.

10 What is a Scar ? Explain the physiotherapy management of hypertrophic scar.

11 List *five* principles used in tendon transfer.

12 Give *five* exercises for a case of radical mastectomy.

13 Explain the role of physiotherapy following pleurectomy.

14 List the pre-operative assessment for a patient who is to undergo Cabg surgery.

15 Describe the equipment required to run a cardiac rehabilitation program.

(8 × 5 = 40 marks)

III. Short Answers :

16 Give *two* indications of postural drainage.

17 Give the *four* anomalies of tetralogy of fallot.

18 What is cynosis ? Give its types.

19 What is the significance of an intercostal drainage tube under water seal ?

20 Define Homans sign.

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21 What is Continuous Positive Airway Pressure (CPAP) ?

22 Give the muscles used in tendon transfer following foot drop.

23 Give *two* uses of Bueger's exercise.

24 Give *two* contraindications-suctioning.

25 List *two* uses of breathing exercises.

RC—2173

FINAL YEAR B.Sc. (PHYSIOTHERAPY) DEGREE EXAMINATION, 2004

COMMUNITY BASED REHABILITATION

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 Discuss types of epidemiological studies.

2 Discuss of community based rehabilitation versus institution based.

3 Discuss "Rural Rehabilitation Extension Centres".

(2 × 10 = 20 marks)

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

4 Architectural barriers in public places.

5 Primary Health Centres.

6 Vocational training of the disabled.

7 Contribution of social worker to rehabilitation.

8 Participatory restrictions in a child suffering from meningomyelocele.

9 Environmental modifications in a wheel chair bound paraplegic.

10 Awareness programmes for prevention of myocardial infarction.

11 Home exercise programs for leprosy.

12 Describe the importance of pre-vocational evaluation.

13 Write a note on role of mobile units in CBR.

(8 × 5 = 40 marks)

III. Short Answers :

14 Define "handicap".

15 Enumerate *two* functional limitations of a ® below knee amputee.

16 What are the physical dimensions of health ?

17 Give any *two* functions of a multipurpose health worker.

18 Name *two* disadvantages of longitudinal population surveys.

19 Objectives of counselling parents of disabled children.

20 Any *four* objectives of prevocational training.

21 What are mobile units ?

22 List possible impairments in a child who cannot squat.

23 Ways of preventing ulcers in an anaesthetic hand.

(10 × 2 = 20 marks)

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RC—2174

FINAL YEAR B.Sc. (PHYSIOTHERAPY) DEGREE EXAMINATION, 2004

ALLIED THERAPEUTICS

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 Define stress and describe the management of patient who is severely stressed up.

2 Describe the role of physiotherapist in general health and physical fitness.

3 Define Yoga. Classify Asanas with examples.

(2 × 10 = 20 marks)

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

4 Role of steroids in sports.

5 Technique and effect of pranayama.

6 Role of aerobic exercises in physical fitness.

7 What is magneto therapy ?

8 Role of exercises in obesity.

9 Importance of dieting in obesity.

10 Give physiological effects of acupuncture.

11 Six minute walk test – assessment method of respiratory system.

12 Describe the therapeutic effects of acupuncture.

13 Define role of sugar in performance.

(8 × 5 = 40 marks)

III. Short Answers :

14 Define target heart rate.

15 Give *two* uses of mud therapy.

16 Define oxygen consumption capacity.

17 Enumerate different yogic kriyas.

18 Define lean body mass.

19 Define Isokinetic exercises.

20 Name the meridians in our body.

21 Importance of agility exercises in sports.

22 Define Doping. Give any *one* effect of doping.

23 Give *two* physiological effects of acupuncture.

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(10 × 2 = 20 marks)