

MANIPAL UNIVERSITY
SECOND TERM B.P.T. (BRIDGE PROGRAM) EXAMINATION – JANUARY 2011
SUBJECT: COMMUNITY PHYSIOTHERAPY

Wednesday, January 12, 2011

Time: 10:00-13:00 Hrs.

Max. Marks: 80

✍ **Answer ALL questions.**

PART – I

1. Essay Questions:

- 1A. Define barriers. Explain different types of barriers for a 45 year old patient with T₁₀ level paraplegia following traumatic spinal cord injury. (2+8 = 10 marks)
- 1B. Define aging. Explain the role of physiotherapist in institutionalized elderly. (2+8 = 10 marks)

PART – II

2. Short Notes:

- 2A. Advantages of multidisciplinary approach.
- 2B. Explain the principles of CBR.
- 2C. Importance of disability evaluation.
- 2D. Write about physiotherapy management for osteoporosis.
- 2E. Musculoskeletal changes in elderly.
- 2F. Ergonomic advice for desk job individuals.
- 2G. Physiological basis of exercise prescription in menopause.
- 2H. Retraining versus compensatory approach in rehabilitation. (5×8 = 40 marks)

PART – III

3. Briefly answer the questions:

- 3A. Mention any TWO musculoskeletal complications during postnatal period.
- 3B. Mention any TWO theories of aging.
- 3C. Mention any TWO techniques for energy conservation in ADL.
- 3D. What are the levels of intervention?
- 3E. Mention any FOUR conditions that lead to locomotor disability.
- 3F. What is diastasis recti?
- 3G. Mention any TWO physiological changes in elderly skin.
- 3H. Mention any TWO neurological problems resulting from diabetes mellitus.
- 3I. Mention any TWO techniques to reduce tremors of hand.
- 3J. Mention any TWO causes for high risk pregnancy. (2×10 = 20 marks)



MANIPAL UNIVERSITY**SECOND TERM B.P.T. (BRIDGE PROGRAM) EXAMINATION – JANUARY 2011****SUBJECT: FUNCTIONAL DIAGNOSIS (ELECTRODIAGNOSIS AND EXERCISE PHYSIOLOGY)**

Friday, January 14, 2011

Time: 10:00-13:00 Hrs.

Max. Marks: 80

☞ Answer all questions.**PART – I****1. Essay Questions:**

- 1A. Explain the principles of exercise prescription in adolescents. (10 marks)
- 1B. Discuss the stages of EMG activity and the interpretations that can be drawn from each of them. Also write a note on advantages and disadvantages of EMG as a diagnostic tool. (5+5 = 10 marks)

PART – II**2. Short Notes:**

- 2A. Write the absolute contraindications to exercise testing.
- 2B. Describe in brief about the Bruce protocol.
- 2C. Musculoskeletal changes with exercise.
- 2D. Decompression sickness and its management.
- 2E. Explain the difference in the EMG activity for myogenic and neurogenic disorders.
- 2F. Write a note on the F-wave.
- 2G. Discuss the factors that influence the findings of nerve conduction studies.
- 2H. Sequential events in the process of generation and conduction of action potential. (5×8 = 40 marks)

PART – III**3. Briefly answer the questions:**

- 3A. Define lactate threshold.
- 3B. What is EPOC?
- 3C. Name the types of amenorrhoea.
- 3D. Overload principle.
- 3E. What is hyperbaric environment?
- 3F. Utility of H-reflex in diagnostic purpose.
- 3G. Abnormal potentials recorded from denervated muscle.
- 3H. Uses of Faradic Galvanic test.
- 3I. Indications for EMG biofeedback.
- 3J. Motor unit study parameters. (2×10 = 20 marks)

