

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

Monday, September 12, 2011

Time: 10:00 – 13:00 Hrs.

Max. Marks: 80

Answer ALL the questions.**1. Essay Questions:**

- 1A. Describe in detail the role of physiotherapist in the evaluation and management of elderly people living in community. (5+5 = 10 marks)
- 1B. Define ergonomics. Discuss in detail about its principles. Mention the components of ergonomic evaluation. (2+5+3 = 10 marks)

2. Short Notes:

- 2A. Discuss about barriers and steps involved in modification of architectural barriers.
- 2B. Write in brief about any FIVE principles of CBR.
- 2C. Discuss about any FIVE stochastic theories of aging.
- 2D. Discuss about work hardening and conditioning.
- 2E. Physiotherapy in postnatal complications.
- 2F. Discuss about risk factors for Work related musculoskeletal disorders.
- 2G. Principles of rehabilitation of soft tissue injuries in sports.
- 2H. Discuss about neck and back care in sedentary occupational lifestyle. (5×8 = 40 marks)

3. Brief Answers:

- 3A. Define CBR.
- 3B. Mention any two agencies involved in CBR for physically disabled.
- 3C. Define disability.
- 3D. Mention any two engineering controls for the management of WRMSDs.
- 3E. Mention any two central nervous system changes associated with aging.
- 3F. Mention any two merits and demerits of institution for aged.
- 3G. Mention Kessler's formula.
- 3H. Define early intervention.
- 3I. Mention domains of ICF.
- 3J. Mention any two health promotion advices for people with diabetes. (2×10 = 20 marks)



MANIPAL UNIVERSITY

SECOND TERM B.P.T. (BRIDGE PROGRAM) EXAMINATION – SEPTEMBER 2011

SUBJECT: FUNCTIONAL DIAGNOSIS (ELECTRODIAGNOSIS AND EXERCISE PHYSIOLOGY)

Tuesday, September 13, 2011

Time: 10:00 – 13:00 Hrs.

Max. Marks: 80

✍ Answer ALL the questions.

1. Essay Questions:

1A. Explain the factors affecting nerve conduction studies. Explain the procedure for measuring motor nerve conduction velocity of ulnar nerve.

(4+6 = 10 marks)

1B. In detail describe the response of an acute bout of exercise on the cardiopulmonary and thermoregulatory systems.

(6+4 = 10 marks)

2. Short Notes:

2A. Explain normal motor unit potential.

2B. Compare the strength duration curve characteristics of a partially denervated and a completely denervated muscle.

2C. Discuss H-reflex in detail.

2D. What is EMG Biofeedback? Explain the advantages and indications for the same.

2E. What is fatigue? What are its causes?

2F. What are the complications of bed rest?

2G. What are the guidelines for prescribing exercises for a pregnant lady?

2H. Briefly describe how you will measure energy expenditure.

(5×8 = 40 marks)

3. Brief Answers:

3A. Draw and label a reflex arc.

3B. What is antidromic condition?

3C. Mention the types of needle electrodes.

3D. What is F-wave?

3E. Mention the types of peripheral nerve injuries.

3F. Define anaerobic threshold.

3G. Name any two ergogenic aids.

3H. Mention two tests to assess endurance.

3I. Highlight any two changes that occur with exercise at high altitude.

3J. What are the principles of exercise training?

(2×10 = 20 marks)

