Reg. No.										

MANIPAL UNIVERSITY

SECOND TERM B.P.T. (BRIDGE PROGRAM) EXAMINATION – APRIL 2012

SUBJECT: COMMUNITY PHYSIOTHERAPY

Monday, April 02, 2012

Time: 10:00 – 13:00 Hrs. Max. Marks: 80

✍ **Answer all the questions.**

✍ **Essay questions:**

1. Describe work related musculoskeletal disorders. What ergonomic strategies can be given for a computer professional with neck pain?

(10 marks)

2. Define early intervention. What are the benefits of an early intervention approach? Explain the role of physiotherapist in early intervention team.

(2+3+5 = 10 marks)

3. Short notes:

3A. Discuss barrier free environment.
3B. Explain the principles of CBR.
3C. Home modification for a wheelchair dependent paraplegic.
3D. Write about physiotherapy management for osteoporosis.
3E. Describe the multidisciplinary approach to community rehabilitation.
3F. Highlight the changes on the cardiopulmonary system with ageing.
3G. Write a short note on the care of a woman following a normal delivery.
3H. Role of NGOs in rehabilitation.

(5×8 = 40 marks)

4. Briefly answer the questions:

4A. Define osteoporosis and mention any two of its complications.
4B. Mention any two theories of ageing.
4C. What are the various levels of health care system?
4D. Mention any two psychological changes with ageing.
4E. ICF classification.
4F. Define work hardening.
4G. Diastasis rectii.
4H. Define ergonomics.
4I. Job placement evaluation.
4J. Respite care.

(2×10 = 20 marks)

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MANIPAL UNIVERSITY

SECOND TERM B.P.T. (BRIDGE PROGRAM) EXAMINATION – APRIL 2012

SUBJECT: FUNCTIONAL DIAGNOSIS (ELECTRODIAGNOSIS AND EXERCISE PHYSIOLOGY)

Tuesday, April 03, 2012

Time: 10:00 – 13:00 Hrs. Max. Marks: 80

✍ **Answer all questions.**

1. Essay Questions:

1A. Explain the acute changes and chronic adaptations that occur in the cardiovascular system.

1B. Draw a panel diagram mentioning the parts of an electrodiagnostic instrument. Explain in detail the abnormal insertional activity in an EMG study.

(10×2 = 20 marks)

2. Short notes:

2A. Electrolyte and fluid balance for an athlete.

2B. Exercise in microgravity.

2C. Exercise training in children.

2D. Energy expenditure measurement.

2E. H-Reflex.

2F. Types of EMG electrodes.

2G. Factors affecting the nerve conduction studies.

2H. Difference between neurogenic and myogenic potentials.

(5×8 = 40 marks)

3. Briefly Answer the Questions:

3A. Define VO2 max.

3B. Name any four ergogenic aids.

3C. What is physical work capacity?

3D. Name any two causes of fatigue.

3E. Name any four exercise testing protocols.

3F. What is a reflex arc?

3G. Define EMG Biofeedback.

3H. What is antidromic conduction?

3I. What is gain?

3J. Define resting membrane potential.

(2×10 = 20 marks)