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MANIPAL UNIVERSITY

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

SUBJECT: COMMUNITY PHYSIOTHERAPY

Wednesday, July 13, 2011

Time: 10:00-13:00 Hrs.

Max. Marks: 80

☞ Answer ALL the questions.

PART – I

1. Essay Questions:

- 1A. Explain the physiological and biomechanical changes during pregnancy.
 - 1B. Describe the musculoskeletal issues in elderly and role of physiotherapy in their management.
- (10×2 = 20 marks)

PART – II

2. Short Notes:

- 2A. Explain physiotherapy management for stress incontinence.
- 2B. Principles of work hardening and conditioning.
- 2C. Principles of exercise prescription for menopausal women.
- 2D. Theories of aging.
- 2E. Ergonomic evaluation for office staff.
- 2F. Acute responses to exercise seen in aged.
- 2G. Ergonomic advice for a dentist.
- 2H. Role of family as caregivers in CBR.

(5×8 = 40 marks)

PART – III

3. Briefly answer the questions:

- 3A. Define work hardening.
- 3B. Diastasis rectii.
- 3C. Role of a social worker in community based rehabilitation.
- 3D. Mention **FOUR** psychosocial implications of aging.
- 3E. Any **FOUR** changes in the cardiovascular system with aging.
- 3F. **TWO** advantages of Job analysis.
- 3G. Hospice care.
- 3H. Mention any **TWO** postnatal complications and their management.
- 3I. Ergonomic advice for patients with low back ache.
- 3J. **FOUR** risk factors that increase the fall risk in elderly.

(2×10 = 20 marks)



MANIPAL UNIVERSITY

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

SUBJECT: FUNCTIONAL DIAGNOSIS (ELECTRODIAGNOSIS AND EXERCISE PHYSIOLOGY)

Friday, July 15, 2011

Time: 10:00-13:00 Hrs.

Max. Marks: 80

☞ **Answer ALL the questions**

PART – I

1. Essay Questions:

- 1A. Discuss the methods and principles of exercise testing for general fitness.
- 1B. What is EMG? Mention the different stages of needle EMG study. Explain the abnormal potentials recorded at rest.

(10+(2+2+6) = 20 marks)

PART – II

2. Short Notes:

- 2A. Beneficial effects of exercise in postmenopausal women.
- 2B. Manifestations of cold intolerance.
- 2C. Physiological adaptations in microgravity environment.
- 2D. Thermoregulation.
- 2E. Describe the conduction along with the Neuro Muscular Junction (NMJ).
- 2F. Write a short note on H reflex.
- 2G. Describe the MNCV procedure.
- 2H. Discuss the indications and the uses of EMG biofeedback.

(5×8 = 40 marks)

PART – III

3. Briefly Answer the Questions:

- 3A. What is heat stroke?
- 3B. What is cardiovascular drift?
- 3C. What is EPOC?
- 3D. What is heart rate recovery?
- 3E. What is circuit training?
- 3F. What is rheobase?
- 3G. What is 'gain' and 'sweep'?
- 3H. What is muscle spindle?
- 3I. What are artifacts?
- 3J. What is a phase in Motor Unit Potential (MUP)?

(2×10 = 20 marks)

