

MANIPAL UNIVERSITY**SECOND TERM B.P.T. (BRIDGE PROGRAM) EXAMINATION – JANUARY 2012****SUBJECT: FUNCTIONAL DIAGNOSIS (ELECTRODIAGNOSIS AND EXERCISE PHYSIOLOGY)**

Wednesday, January 18, 2012

Time: 10:00 – 13:00 Hrs.

Max. Marks: 80

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

1A. Define Electromyography. Explain the normal and abnormal spontaneous potentials.

(2+3+5 = 10 marks)

1B. Write in detail about the metabolic and respiratory adaptations to aerobic training.

(5+5 = 10 marks)

2. Short Notes:

2A. H reflex

2B. Factors affecting nerve conduction studies

2C. EMG biofeedback and its implication in Physiotherapy

2D. Classification of nerve lesions using electrodiagnosis

2E. Water as a nutrient for exercise

2F. Acute responses of the renal system to exercise

2G. Excessive Post exercise Oxygen Consumption (EPOC)

2H. Heat Acclimatization

(5×8 = 40 marks)

3. Brief Answers:

3A. Mention the types of nerve fibers

3B. What is rise time? What is the implication of it?

3C. Mention any four types of needle electrodes

3D. What is F wave? Mention any two parameters measured in F wave study.

3E. What is resting membrane potential?

3F. What is oxygen deficit?

3G. What is anaerobic threshold?

3H. What is pressure diuresis?

3I. Name two pharmacologic agents commonly used as ergogenic aids.

3J. What is agility?

(2×10 = 20 marks)



MANIPAL UNIVERSITY**SECOND TERM B.P.T. (BRIDGE PROGRAM) EXAMINATION – JANUARY 2012****SUBJECT: COMMUNITY PHYSIOTHERAPY**

Monday, January 16, 2012

Time: 10:00 – 13:00 Hrs.

Max. Marks: 80

✍ **Answer ALL the questions.**

1. Essay Questions:

- 1A. Describe the musculoskeletal and neurological changes with ageing.
1B. What is the ESI? Write down the various components of the ESI.

(10×2 = 20 marks)

2. Short Notes:

- 2A. Work hardening and work conditioning
2B. Enumerate the indications and contraindications of exercise in pregnancy
2C. Exercises during the antenatal period
2D. Sports for disabled people
2E. Describe the environmental modifications required for a patient with osteoarthritis of knee
2F. Prescribe an exercise program for hypertensive and explain the rationale for the same
2G. Ideal computer workstation
2H. Write in detail about chest physiotherapy for infants

(5×8 = 40 marks)

3. Brief Answers:

- 3A. Define 'Boosting'.
3B. Define ergonomics.
3C. Types of spina bifida.
3D. Any two roles of multipurpose health worker
3E. Deformities in CTEV
3F. What is post-polio syndrome?
3G. What is diastasis recti?
3H. Define early intervention.
3I. Write any four occupational hazards.
3J. What is PRICE protocol?

(2×10 = 20 marks)

