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No. of Printed Pages: 1 + 2

SARDAR PATEL UNIVERSITY
FIRST YEAR B. PHYAIOTHERAPY EXAMINATION

Subject: Human Physiology

Friday, 3rd January 2014

Time: 10.30 am to 01.30 pm

Total Marks: 80

Instruction:

1. Section – I is MCQ and is to be attempted on a separate MCQ paper within 20 minutes.
2. Write the answers for section II and III in separate answer books.
3. Draw figures or diagrams where necessary.
4. Figures in bracket indicate total mark allotted to each question.

Section – I

(20)

Q: 1 MCQ: Read the instruction on the MCQ paper and attempt the MCQ's.

Section –II

(30)

Q: 2 Answer the following questions (Any Three) **(3 × 5 = 15)**

- a) What is fatigue? Discuss in detail factors affecting fatigue. Explain how to delay of fatigue.
 - b) Briefly explain the “Cross-Bridge Cycle Theory” for skeletal muscle contraction.
 - c) Describe in detail Oxygen Transport.
 - d) Define Blood pressure with its normal range. Describe in detail factors affecting Blood pressure.
- (2+3)

Q: 3 Short Notes: (All are compulsory) **(5 × 3 = 15)**

- a) Homeostasis
- b) Neuromuscular Junction
- c) ABO Blood group
- d) Vital Capacity
- e) Gastric Juice

Section –III

(30)

Q: 4. Answer the following questions. (Any Three) **(3 × 5 = 15)**

- a) Differentiate upper motor neuron and lower motor neuron paralysis.
- b) Describe in detail properties of synapse.
- c) Describe in detail functions of Hypothalamus
- d) Enlist the hormones secreted from Pituitary gland. Describe in detail functions of Growth Hormone. (2+3)

Q: 5 Short Notes (All are compulsory) **(5 × 3 = 15)**

- a) Cortisol
- b) Micturition
- c) Menstrual Cycle
- d) Vision
- e) EMG

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