(I BPT Prior mistake) 75

2152_2006_2_S13

Rajiv Gandhi University of Health Sciences

(26)

Second Year B.Sc. (Physiotherapy) Degree Examination

Time: 3 Hours] [Max. Marks: 100]

PHYSIOLOGY, THERAPEUTIC PHYSIOLOGY AND BIOCHEMISTRY

(OS, RS & RS2)

Your answer shall be specific to question asked. Draw neat and labelled diagrams wherever necessary.

Use separate answer books for section A and section B.

QP Code: 2152 - Section A [50 Marks]

ONG ESSAY (ANSWER ANY TWO) **2 x 10 = 20 Marks**

1. Explain excitation contraction coupling in skeletal muscle
2. Define cardiac output and cardiac index. Give the normal value for each. Explain the factors determining cardiac output
3. Name the ascending tracts of spinal cord and the functions of each. Trace the pathway for fine touch

RT ESSAY (ANSWER ANY FOUR) **4 x 5 = 20 Marks**

4. Tabulate the differences between first and second heart sound
5. Explain the actions of cortisol
6. Describe impulse transmission in a synapse
7. Explain erythroblastosis foetalis
8. What is deglutition? Explain the pharyngeal stage of deglutition

HORT ANSWERS **5 x 2 = 10 Marks**

9. Define E.S.R. Give the normal value. What is the significance of determination of E.S.R.?
10. List the hormones of determination of E.S.R.
11. Trace the taste pathway
12. Enumerate the function of testosterone
13. What is crossed extensor reflex? What is its significance?

QP Code: 2153 - Section B [50 Marks]

Use separate answer book

LONG ESSAY (ANSWER ANY TWO) **2 x 10 = 20 Marks**

1. Write metabolic function and deficiency symptoms of following Vitamins - a) Ascorbic acid b) Niacin
2. Explain how acid base balance is maintained in the body
3. What are enzymes? Classify them giving one example each. Indicate the reaction catalyzed by the enzyme in each class

SHORT ESSAY (ANSWER ANY FOUR) **4 x 5 = 20 Marks**

4. Write short notes on creatinine clearance
5. Name the mechanism used for detoxication giving one example each
6. How are phospholipids classified? Give any four important functions of phospholipids
7. Define basal metabolic rate. Explain the factors that influence BMR
8. Describe the digestion and absorption of lipids

SHORT ANSWERS **5 x 2 = 10 Marks**

9. Give the normal levels of sodium, potassium, chloride, bicarbonate in the blood
10. Write short note on Ribosomes
11. What is meant by denaturation of proteins? What is its biological relevance?
12. Glucosuria in non-diabetic states (mention two)
13. Poly unsaturated fatty acids

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