

INSTITUTE OF INDIGENOUS MEDICINE, UNIVERSITY OF COLOMBO, RAJAGIRIYA
BAMS LEVEL II – SECOND SEMESTER EXAMINATION – JUNE 2018
SHAREERA KRIYA (PHYSIOLOGY AND BIOCHEMISTRY) IV
COURSE CODE – AS 2202

Time: 2 1/2 hours
(9.45 a.m. – 12.15 p.m.)

Index No

Answer all questions

Part I - Structured Questions

01.

1.1 Name four (04) types of supporting cells in the central nervous system along with their functions (04 Marks)

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1.2 Using a flow diagram, explain the physiological basis of consensual (indirect) light reflex (03 Marks)

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02.

2.1 Describe the "sliding filament" theory of voluntary muscle contraction. (04 Marks)

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2.2 List three clinical features of extrapyramidal lesions (03 Marks)

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03.

3.1 Name three (03) inhibitory neurotransmitters found in the central nervous system (03 Marks)

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3.2 Explain the difference between temporal summation and special summation of local potentials (04 Marks)

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04. Explain the physiological basis of the following

4.1 The mechanism of action of local anaesthetic drug, Lignocaine.

(03 Marks)

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4.2 Cholinesterase inhibitors are used in the treatment of myasthenia gravis.

(03 Marks)

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05.

5.1 What is the function of Creatine kinase (CK)?

(01 Mark)

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5.2 List three organs where Creatine kinase is present

(03 Marks)

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5.3 Briefly explain why Creatine Kinase- MB isozyme is considered as a better marker rather than Lactate dehydrogenase -1 isozyme, in the early detection of Myocardial infarction (03 Marks)

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06.

6.1 Name the different structures of proteins along with one example

(03 Marks)

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6.2 Give the reasons for following

(03 Marks)

(a) Occurrence of gum bleeding in vitamin C deficiency

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(b) Presence of edema in Kwashiorkor

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Part II – Essay Questions

1. Experimental spinal hemi cord section was done at the spinal segment of cervical one (C - 1). Describe the neurological abnormalities (muscle tone, motor deficits, sensory deficits and abnormalities in reflexes) that would be present in right and left upper limbs and right and left lower limbs. (20 Marks)

2.
 - 2.1 Explain the lipoprotein metabolism in human body (10 Marks)
 - 2.2 Explain the mechanism formation of an atherosclerotic plaque in an artery (10 Marks)

31.07.2018
