



INSTITUTE OF INDIGENOUS MEDICINE, UNIVERSITY OF COLOMBO
DEGREE OF BACHELOR OF AYURVEDA MEDICINE AND SURGERY
LEVEL II – SECOND SEMESTER EXAMINATION – MARCH - APRIL 2021

AS 2202 – SHAREERA KRIYA (PHYSIOLOGY) IV

Date:29.03.2021

Time:9.45 am - 12.15 pm

Answer all questions.

Index No

Part I - Structured Questions

a. Describe four (04) functions of the cerebellum. (04 Marks)

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b. List four (04) clinical features of cerebellar disorders. (02 Marks)

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2. A 30 year old man has sustained an injury to his thoracic cervical spinal cord at C5 C6 level on the right side. A neurological examination was done one month after the injury.
List the following abnormalities present in his lower limbs.

a. Four (04) abnormal reflexes. (02 Marks)

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b. Four (04) sensory abnormalities. (02 Marks)

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c. Comment on the muscle tone and muscle power. (03 Marks)

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3. Explain the scientific basis of the following.

a. When a beam of light is shown on to one eye both pupils constrict. (02 Marks)

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b. When a vibrating tuning fork is placed on the forehead of a person with conductive deafness on the right ear, he said he heard the tuning fork better in the right ear. (02 Marks)

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c. Ethylmercaptan is added to domestic bio gas cylinders.

(02 Marks)

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4.

a. Name the most abundant ketohexose in fruits.

(01 Marks)

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b. Briefly describes how lactose intolerance occurs.

(04 Marks)

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arks)

c. Name the most suitable food supplement for a lactose intolerant infant (02 Marks)

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5.

a. What are isozymes? (01 Mark)

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ks)

b. Name the isozymes of Creatine Phospho kinase (CPK/CK) found in following organs.

i. Heart -

ii. Brain -

iii. Skeletal muscles -

(03 Marks)

ks)

c. Explain briefly, why LDH 1 isozyme (Lactate Dehydrogenase 1) cannot be used as a quick blood marker of myocardial infraction. (03 Marks)

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of 6

6. a. Name the lipoprotein, origin in following organs. (03 Marks)

i. Liver -

ii. Small intestine -

iii. Blood vessels -

b. Mention the function of HDL (High Density Lipoprotein) briefly. (04 Marks)

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Part II - Essay Questions

1. Describe the transmission of impulse across neuromuscular junction leading to contraction of skeletal muscles. (20 Marks)

2. Describe the biochemical pathway of formation of Atherosclerotic plaque. (20 Marks)
