

EXAMINATIONS
Institute of Indigenous Medicine
18 JAN 2022



INSTITUTE OF INDIGENOUS MEDICINE, UNIVERSITY OF COLOMBO
DEGREE OF BACHELOR OF AYURVEDA MEDICINE AND SURGERY
LEVEL II SECOND SEMESTER SECOND SUPPLEMENTARY
EXAMINATION : JANUARY – FEBRUARY 2022
AS 2202- Shareera Kriya (Physiology) -IV

Date: 18.01.2022

Time: 1.45 PM – 4.15 PM

Answer all questions.

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Part I - Structured Questions

1.

a. Describe the phases of an action potential occurring in a neuron. (03 Marks)

[Dotted lines for answer a]

b. Explain mechanism of tetanic contraction of skeletal muscles. (03 Marks)

[Dotted lines for answer b]

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2. Outline pathways of the following using a flow diagram:

a. Pupillary (light) reflex.

(04 Marks)

b. Corneal reflex.

(03 Marks)

3. Spinal cord hemisection is done at the level of 8th thoracic spinal segment on the right side

Indicate the status of following in **both** (right and left) lower limbs. (07 Marks)

a. Tone

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b. Power

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c. Knee jerk

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d. Babinski reflex

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e. Joint position sense

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f. Presence or absence of muscle wasting

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g. Temperature sense

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4.

a. List the following.

i) Four (04) cerebellar functions. (04 Marks)

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ii) Three (03) signs of cerebellar dysfunction. (1.5 Marks)

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b. Describe perception of olfaction (smell).

(1.5 Marks)

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5.

a. Mention two (02) differences between active and passive transport systems.

(01 Mark)

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b. Explain the effect which will occurs, when a red blood cell is placed in a hypotonic solution.

(02 Marks)

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c. Describe briefly the functions of plasma membrane of a cell.

(03 Marks)

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6.

a. Name 04 (four) essential amino acids

(02 Marks)

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