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2009

M.Sc.

## 1st Semester Examination HUMAN PHYSIOLOGY

VI—REGAR Unit—08 04 : saka llu Ver any car

Time: 2 Hours

The figures in the right-hand margin indicate full marks.

Candidates are required to give their answers in their own words as far as practicable.

Illustrate the answers wherever necessary.

## Unit-07

## Answer any two questions.

- 1. (a) Show schematically the locations of major nerve tracts in cervical spinal segments.
  - (b) What is the outermost layer of the spinal cord? What type of nerves are found in dorsal and ventral root ganglions?

    4+2+4
- 2. (a) What is the other name of myotatic reflex?
  - (b) What type of afferent and motor neurous are involved during this type of reflex action?
  - (c) Describe the reflex briefly.

1+3+6

- 3. (a) Give modern perspective of the function of cerebellum in controlling voluntary movement.
  - (b) Explain the basis of Dysmetria and Ataxia.

6+(2+2)

4. Mention the clinical syndromes resulting from the damage of Basal Ganglia. Give reasons.

## Unit-08

Answer any two questions.

- 1. (a) Write briefly on the release of neurotransmitter from axonal ending with a special note on the function of 7 S and 20 S complex.
  - (b) Why action potential always moves in a forward direction?
  - (c) Why is synapse empassant?

6+2+2

- 2. (a) Write a note on SERCA (Sarcoplasmic Endoplasmic Reticulum Ca? AT. Pase).
  - (b) Discuss critically the action of acetylcholine estarase.
  - (c) Explain denervation hypersensitivity.

3+3+4

- 3. (a) Describe the mechanism of CSF secretion.
  - (b) What role does the arachnoid granulations play in CSF clearing? 6+4
- **4.** (a) What kind of neuroglial cells are found in the central nervous system?
  - (b) Describe their functions in brief.

3+7