

SUPPLEMENTARY

SARASWATI-I: SEPTEMBER 2017
SUBJECT: PHYSIOLOGY PAPER-II

Day : Tuesday
Date : 12/09/2017

Time: 2.00 pm To 4.00 pm
Max. Marks: 50.

N.B.:

- 1) Solve any **FIVE** questions.
 - 2) Figures to the **RIGHT** indicate full marks.
 - 3) Draw labeled diagrams **WHEREVER** necessary.
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- Q.1 a)** Draw and label corticospinal tracts and describe their functions. (05)
- b)** Describe physiological actions of thyroid hormone. (05)
- Q.2 a)** An elderly patient came with the complaints of inability to co-ordinate muscle movements and loss of balance. On examination, nystagmus and intention tremors were present, knee jerk was pendular. (05)
- i) Identify the condition.
 - ii) Give its causes.
 - iii) Explain pathophysiology of intention tremors.
- b)** Describe phases and regulation of pancreatic juice. (05)
- Q.3 a)** Enumerate various hormones secreted by anterior pituitary gland. Explain physiological actions of growth hormone. (05)
- b)** Describe organ of Corti. (05)
- Q.4 a)** Define Synapse. Enumerate various properties of synapse and discuss any two of them in detail. (05)
- b)** Describe functions of Sertoli cells. (05)
- Q.5** Write notes on any **TWO** of the following: (10)
- a) Rapid Eye Movement (REM) sleep
 - b) Cushing's syndrome
 - c) Errors of refraction
- Q.6** Write notes on any **TWO** of the following: (10)
- a) Physiological changes during pregnancy
 - b) Frontal lobe
 - c) Movements of small intestine