

2021

Time :As in Programme

Full Marks : 100

The figures in the right-hand margin indicate marks.

*Answer **all** questions.*

Draw diagrams wherever necessary

SECTION-A

1. Write about the synthesis and functions of thyroid hormones. Is thyroid gland absolutely essential for the life? Justify. (4+8+3)

OR

Write about the origin, course, termination and functions of pyramidal tract. What is hemiplegia. (3+3+3+3+3)

2. Write short notes on (3X5)
- a) Somatomedin
 - b) Cushing's syndrome
 - c) Insulin receptor
 - d) Withdrawal reflex
 - e) Golgi tendon reflex

(Turn Over)

3. What is an upper motor neuron? Write the difference between upper motor neuron and lower motor neuron lesion. (2+8)
4. Give physiological explanation for each. (2X5)
 - a) The tubular fluid of ascending part of loop of Henle is hypotonic.
 - b) Rigidity is seen in parkinsonism.
 - c) Non pitting oedema is seen in Myxoedema.
 - d) A person cannot sleep during pain.
 - e) Two point discrimination sensation in minimum on the tip of the things.

SECTION-B

5. Define GFR. Discuss the factors regulating it. How do you measure GFR? (4+7+4)

OR

Trace the visual path from its origin to termination with a neat & labelled diagram. With a brief description what do you mean by homonymous hemianopia.(5+5+5)

6. Compare and contrast (3x5)
 - a) Carotenemia & jaundice
 - b) Infertility & sterility
 - c) T3 and T4
 - d) Thermal and nonthermal sweating
 - e) Osteoblasts and osteoclasts

7. Draw a neat and labelled diagram of (5X2)

- a) Stretch reflex
- b) Ruscle spindle

8. Do as directed (2X5)

- a) Fill in the blanks
 - i) Cerebellar disorder shows _____ tremor.
 - ii) _____ is the receptor for colour vision.
- b) Correct the statement if incorrect
 - i) TRH is the hormone of Pituitary gland.
 - ii) Corpus luteum secretes oestrogen.
- c) Stoppage of menstrual cycle is known as menarche. (true/false)



(Contd.)