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1st Prof.-MBBS—
Physiology-II

2021

PHYSIOLOGY

Paper — II

Full Marks : 100

Time : 3 hours

Answer all questions

The figures in the right-hand margin indicate marks

Draw neat and labeled diagrams wherever necessary

SECTION — A

1. Name the hormones secreted from pancreatic islets, enlist the steps involved in Insulin synthesis. Write briefly the physiological action of insulin on Liver, Muscle and Adipose tissue.

2 + 4 + 9

(Turn Over)

(2)

Or

Name different phases of Menstrual cycle.

Write in brief the ovarian and uterine changes during different phases of it. Explain the physiological basis of Menopause ? 3 + 4 + 4 + 4

2. Write short notes on : 5 × 4

- (i) Oxytocin
- (ii) Dark adaptation
- (iii) Micturition reflex
- (iv) Spermatogenesis.

3. Write briefly about Heat stroke and it's management. 3 + 2

4. Give reason for : 5 × 2

- (a) Oral contraceptive pills prevent pregnancy
- (b). Adrenal crisis

(3)

(c) Anaemia in chronic renal disease

(d) In decerebrate Rigidity, tone is increased in extensor group of muscles

(e) Physiological blind spot.

SECTION – B

5. Name the receptor for pain and trace the dual pathways for transmission of Pain. Explain in brief the Analgesia system in the brain and spinal cord. Name two causes of true visceral pain. 1 + 6 + 6 + 2

Or

Draw a neat labeled diagram of Organ of Corti and explain in brief it's role in Hearing. Briefly explain Endocochlearpotential ? 5 + 6 + 4

6. Compare and Contrast : 5 × 4

(a) Broca's and Wernicke's aphasia

(4)

(b) Clinical Features of Hypothyroidism and Hyperthyroidism.

(c) Flexor withdrawal and Crossed Extensor reflex.

(d) Counter current multiplier and Exchanger system in kidney.

7. Draw neat labeled diagram : 5×2

(a) Visual pathway with effects of lesion at different levels of it.

(b) Stretch reflex.

8. Do as directed : 1×5

(a) Write two cardinal features of Parkinsonism.

(b) Inulin clearance is used to estimate _____ (complete the sentence)

(c) In Cerebellar lesion _____ tremor is seen (FIB).

(5)

(d) CSF is secreted from Arachnoid Villi. (True/False)

(e) Write two functions of Cone. _____