



JE-M20174

Seat No. _____

First Year M. B. B. S. Examination

July – 2019

Physiology : Paper - II

Time : 3 Hours]

[Total Marks : 50

- Instructions :** (1) Write answers of each section in separate answer book.
(2) Answers should be brief and draw necessary diagrams.
(3) Illegible writing will not fetch any marks.
(4) Figures to the right indicate full marks.

SECTION - I

- 1 Write the definition, genesis and control of sleep. Also mention a note on sleep disorders. 8
- OR**
- 1 Describe connections, functions and abnormalities of Basal ganglia. 8
- 2 Write notes on : 8
(A) Visual reflexes OR Mechanism of hearing
(B) Ionic basis of action potential OR Secondary active transport
- 3 (A) Describe the chemical transmission in the Autonomic nervous system 5
(B) Explain in few sentences : 4
(a) LH is called ovulating hormone
(b) Watching TV for long periods may produce severe headache
(c) Cardiac muscle cannot be tetanized.
(d) Simultaneous contraction of atria and ventricles do not take place

SECTION - II

- 4 Describe the functions, control and disorders of glucocorticoid hormones. 8
- OR**
- 4 Describe the hormones regulating calcium metabolism and mention a note on its applied aspect. 8
- 5 Write notes on : 8
- (A) Female sexual cycles OR Physiological basis of Contraception
- (B) Glucagon OR Fight or flight reactions
- 6 (A) Discuss the pathophysiology of Diabetes mellitus 5
- (B) Explain in few sentences : 4
- (a) Sympathetic nervous system is also called catabolic nervous system.
- (b) Damage to Broca's area causes motor aphasia.
- (c) Rigidity of muscle is seen in upper motor neuron lesion.
- (d) Cylindrical lens is used to correct astigmatism.
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