

**M.Sc. (Zoo) Semester - 4 (CBCS) Examination****March/April- 2019****Neurobiology****(CORE)****Time: 2:30 Hours****Marks: 70****Instructions:**

1. All questions are compulsory.
2. Figures to the right indicate marks.

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- Que-1 Answer the following. (Any seven out of ten question) (14)
- (1) How pain killer drugs work?
  - (2) Which part(s) of brain is (are) responsible for balancing and reasoning?
  - (3) How one can avoid depression?
  - (4) Explain hisogenesis of nerve tissue in very short.
  - (5) What is hypertension?
  - (6) Mention functions of any five parts of brain.
  - (7) Draw chemical structure of melatonin.
  - (8) What are the applications of brain topography?
  - (9) Draw the nervous system ring of earth worm and label all the parts.
  - (10) What will happen if brain does not get glucose?
- Que-2 Answer the following. (Any two out of three) (14)
- (1) Draw and explain in detail: Nervous system of Apple snail.
  - (2) Explain structure and functions of different parts of human brain.
  - (3) Write about structure and functions of neurons.
- Que-3 Answer the following. (14)
- (1) Describe formation of myelin sheath.
  - (2) Explain ultra structure of synapse.
- OR
- Que-3 Answer the following.
- (1) Describe Neurotransmitters.
  - (2) Write functions of Neurotransmitters.
- Que-4 Answer the following. (Any two out of three) (14)
- (1) Write short note on Neuropeptides.
  - (2) Describe Endorphins or opiate peptides
  - (3) Give differences in between STM, LTM.
- Que-5 Write short note on (any two out of four). (14)
- (1) Epilepsy
  - (2) Melatonin
  - (3) Depressions
  - (4) EEG

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