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**SECOND YEAR (S.Y.B.Sc)
ZOO24101: NEUROSCIENCE
(Semester IV)**

**Program: B.Sc.
Program Specific: Zoology
Course Type: Mandatory major
Paper: I**

**Credits: 2
Time: 2 Hours
Max. Marks: 30
SET: A**

Instructions to the candidate:

- 1) All questions are compulsory.
- 2) Figures to the right indicate full marks.
- 3) Draw a well labelled diagram wherever necessary.

Q1) Answer the following

[5 X 1= 5]

- a) What is neuron?
- b) Define neurotransmitter.
- c) What is memory?
- d) Define stroke.
- e) Define neuroscience.

Q2) Answer the following (Attempt any 5/7)

[5 X 2 =10]

- a) What is prenatal development of human brain?
- b) Enlist any two theories of brain evolution.
- c) What is neuroimaging?
- d) Enlist any two types of CT scan.
- e) Explain neurotransmission.
- f) Describe anxiety and depression.
- g) Sketch and label neuron cells.

Q3) Answer the following/Write short notes on following (Attempt any 2/4)

[2 X 5 = 10]

- a) Write a note on divisions of brain.
- b) Explain evolution of brain in vertebrates with suitable example.
- c) Write a note on various types of neurotransmitter.
- d) Explain neurodegenerative disease with suitable example?

Q4) Answer the following (Attempt any 1/2)

[5 X 1 = 5]

- a) State the difference between neurons and glia cells.
- b) Write a note on MRI.
