

2006 JAWAHARLAL NEHRU UNIVERSITY
IV B.TECH II SEMESTER REGULAR EXAMINATIONS
NEUROBIOLOGY AND COGNITIVE SCIENCE
(BIO-TECHNOLOGY)

APRIL 2006

TIME : 3 HOUR
MARK : 80

answer any five questions all questions carry equal marks

1. Explain in brief the organization of human nervous system and draw a neat labelled diagram.
2. Define neuron? Describe the various parts of neuron with the help of a neat labelled diagram and explain their functions.
3. Define synapse? Describe the types of neuronal circuits in the nervous system.
4. Describe the specialized or associated cells in the central and peripheral nervous systems other than neurons and explain their functions.
5. Write short notes on the following
 - (a) Inter neuron
 - (b) difference between afferent and efferent neurons
 - (c) All or none principle
 - (d) Action potential.
6. Describe the genetic basis of neuronal disorders.
7. (a) Explain in brief the special senses in humans.
(b) Discuss the role of hormones on neuronal function.
8. Describe the neuronal mechanism of behaviour in animals.