

Time: 2½Hrs

Total Marks: 60

N.B.1) Figures to the right indicates full marks

2) All questions are compulsory

Q1 “Sleep consists of alternating REM and Non-REM period”. – Justify the statement. What is the relevance of REM sleep for brain cortex? **12**

OR

Q1 With a suitable example differentiate between conscious and unconscious cognitive processes. Also mention the two state of dimensions of consciousness. **12**

Q2 Describe the biological basis of Depression. Add a note on deficit of Neurotransmitters. **12**

OR

Q2 What is meant by Borderline Personality Disorder? Describe the neural basis of BPD? **12**

Q3 Diagrammatically represent the location of sexually Dimorphic nucleus. Explain the relevance of a sexually Dimorphic neural circuit in hypothalamus and Mating behaviour. **12**

OR

Q3 Explain the characteristic abnormalities of brain described in Alzheimer disease. How does it lead to cognitive impairment? **12**

Q4 Leprosy causes non traumatic peripheral neuropathy”: Justify the given statement. Mention the diagnostic features of Leprosy. **12**

OR

Q4 What are prion diseases? Discuss anyone common form of Prion disease that affects human. **12**

Q5 Answer **any Two** of the following : **12**

- Axon degeneration
- Kwashiorkar
- Neural stem cells
- Kohlberg’s theory
- Huntington’s disease