

Time Allowed: 3 Hours

Total Marks: 70

Sign of Supdt.

1- Encircle the correct answer:

1x30

- i) A branch of psychology that focuses on the study of the effects of drugs on behavior is _____.
 a) Drug Psychology b) Bio Psychology c) Neuro Psychology d) Psycho Pharmacology
- ii) Which lob of the cerebral cortex include the primary auditory cortex.
 a) Primary Somoto Sensory Cortex b) Primary Visual Sensory Cortex
 c) Primary Motor Sensory Cortex d) None of above
- iii) Most commonly studied Psychophysiological correlates of sleep are:
 a) EEG b) EMG c) EOG d) All of the above
- iv) Amino Acid Neurotransmitters do not include:
 a) Glutamate b) Aspartate c) Indolamines d) None of above
- v) Brain contains a series of hollow, interconnected chambers known as _____.
 a) Ventricles b) Holes c) Synopses d) Hollow Space
- vi) A hormone significant in aggressive behavior is _____.
 a) Testosterone b) Androgen
 c) Both a & b d) None
- vii) The outermost layer of the meninges is _____.
 a) Diameter b) Dura Mater
 c) Membrane d) None of the above
- viii) Neuroglia is also called the _____.
 a) Nerve b) Dendrites
 c) Neurone d) Glial Cell
- ix) NREM sleep is characterized by:
 a) Lack of muscle tone b) PGO Spikes
 c) EEG Desynchrony d) None of the above
- x) GABA is synthesized by a simple modification in the structure of _____.
 a) Glycine b) Glutamic Acid
 c) Aspartate d) All of above
- xi) Mesencephalon (Mid brain) consist of _____.
 a) Tactum b) Tegamentum
 c) Both a & b d) None of above
- xii) Wernicke's area is located in the _____.
 a) Temporal Lob b) Frontal Lob
 c) Parietal Lob d) Occipital Lob
- xiii) Adipsia is caused due to lesions of:
 a) Lateral Hypothalamus b) Medial Hypothalamus
 c) Both a & b d) None of above
- xiv) A state of decreased sensitivity to a drug due to repeated exposure to the drug is called _____.
 a) Drug Dependence b) Drug Abuse
 c) Drug Tolerance d) None of above

- xv) Dreaming occurs predominantly during _____ sleep.
a) REM b) NREM c) Both a & b d) None of above
- xvi) Adrenaline is secreted by _____.
a) GABA b) Pituitary c) Mioline d) None of above
- xvii) Mania is related to _____.
a) Anxiety b) Organic Disorder c) REM d) Mood Disorder
- xviii) Broca's area of the brain is after the name of a _____.
a) American Psychologist b) Greek Psychologist c) French Psychologist d) None of them
- xix) Sympathetic Nervous System is related to:
a) ANS b) CNS c) PNS d) Cerebral Cortex
- xx) Thalamus and hypothalamus are related to _____.
a) Mesencephalon b) Telencephalon c) Both a & b d) None of above
- xxi) Which of the following is a cranial anomaly associated with mental retardation.
a) Macrocephaly b) Microcephaly c) Both a & b d) None of above
- xxii) Nerves that carry signals from CNS to muscles is called:
a) Efferent Nerves b) Afferent Nerves c) Both a & b d) None of Above
- xxiii) Tumors are surgically removable:
a) Meningiomas b) Metastatic Tumors c) Malignant d) All of above
- xxiv) All or non law applies to:
a) Dendrites b) Axon c) Somata d) All of them
- xxv) During rise of action potential sodium ions moves _____.
a) Into the Cell b) Out of the Cell c) To and Fro d) None of them
- xxvi) Brain damage can occur during:
a) Prenatal Period b) Perinatal Period c) Post Natal Period d) All of them
- xxvii) Most serious type of brain tumors are _____.
a) Gliomas b) Metastases c) Both a & b d) None of above
- xxviii) Programmed cell death is called _____.
a) Mumps & Herpes b) Apoptosis c) Tardive Dyskinesia d) None of them
- xxix) Major Categories of Epileptic Seizures are:
a) Partial and Generalized b) Grandmal & Petitmal c) Simple & Complex d) All of above
- xxx) Major Neuro pathological symptoms of Alzheimers disease is _____.
a) Neurofibrillary b) Meningitis c) Dementia d) All of above

2- Encircle True or False:

1x10

- | | |
|---|---------------------|
| i) Broca's area is a portion of cerebral cortex performs functions necessary for Kinesthetic sense. | TRUE / FALSE |
| ii) The cell body of the neuron which contains the nucleus is called Axon. | TRUE / FALSE |
| iii) Glia is the supporting cell of the CNS. | TRUE / FALSE |
| iv) Mood is not regulated by serotonin. | TRUE / FALSE |
| v) Tactum is a mid brain area. | TRUE / FALSE |
| vi) A drug that facilitates the effects of a particular neurotransmitter is called ANTAGONIST. | TRUE / FALSE |
| vii) Glial cells destroy the transplanted stem cells. | TRUE / FALSE |
| viii) The beginning of a Grand Mal Seizure is called Clonic Phase. | TRUE / FALSE |
| ix) Serotonin is also called 5-HT. | TRUE / FALSE |
| x) L-Dopa can be converted into Dopamine. | TRUE / FALSE |

3- Differentiate between the following:

2 x 5

i) Adrenal Cortex and Adrenal Medula?

ii) Hormone and Neurotransmitter.

iii) Antagonist and Agonist.

iv) Working Memory and Reference Memory.

v) Acetylcholine and Epinephrine.

4- Give short answers of the following questions:

2 x 10

i) Two major Functions of Mitochondria in the cell.

ii) What is Sodium-Potassium Pamp?

iii) Advantages and Disadvantages of BBB.

iv) What are Major Structures of the Mid Brain?

v) What is Implicit Memory and Explicit Memory?

vi) Which type of factors are involved in hunger?

vii) Sodium Potassium Pump.

viii) Write down the Symptoms of Multiple Sclerosis.

ix) What do you mean by postmortem Autopsy?

x) Is it feasible to transplant Human Brain Tissues?
