

Master's Degree Examination – November 2017
I Semester

Class : I PG
Major : Applied Psychology

Time: 3 hours
Max. Marks: 60

17MAPC02-PHYSIOLOGY OF BEHAVIOUR

Part -A

Choose the Correct answer

(10x1/2=05)

1. The neuron have the covering that is called _____ which acts as a insulation of a wire.

- (a) Axon Helix (b) Myelinated axon (c) Un Myelinated axon (d) Node of Ranvier

2. Receiving information from other neurons or cells is called _____

- (a) Axon (b) Cell Body (c) Dendrite (d) Soma

3. _____ is responsible for CNS protection against various types of Pathogenic factors

- (a) Microglia (b) Oligodendrocytes (c) Astrocytes (d) Schwann cells

4. _____ is the lowest part of the brain connecting to the spinal cord.

- (a) Medulla (b) Cerebellum (c) Pons (d) Superior colliculus

5. _____ Is increase the heart beat, blood pressure for fight or flight reaction.

- (a) Sympathetic nervous system (b) Para Sympathetic nervous system
(c) Both a & b (d) None of the above

6. The hemispheres are separated by a deep fissure is called _____

- (a) Longitudinal fissure (b) Thick and strong fissure (c) Gyrus (d) Sulcus

7. _____ Nerve that carry visual information from the eye to the brain for vision

- (a) Motor Nerve (b) Sensory Nerve (c) Oculomotor nerve (d) Trigeminal nerve

8. The _____ start from the grey matter and leave the spinal cord to reach the muscle or gland.

- (a) Sensory nerve fibers (b) Motor nerve fibers (c) Both a & b (d) None of the above

9. Sleep spindles and K - Complex occurs in _____

- (a) Stage 1 (b) Stage 2 (c) Stage 3 (d) Both a & b

10. Frightening dreams during REM sleep is called _____

- (a) Sleep Apnea (b) Nightmares (c) Narcolepsy (d) None of the above

Part B

Answer the following in 200 words or two pages

(5x4=20)

1. a) Write about the neural communication.
(or)
b). Write short notes on structure and Functions of neuron.
2. a) Write about Dopamine.
(or)
b) Explain different types of Neurotransmitters.
3. a) Discuss the evolution of large brain.
(or)
b) Explain CT and PET scan.
4. a) Detail about Anatomy of Photoreceptors.
(or)
b) Detail about Anatomy of Taste Buds .
5. a) Explain physiological and behavioral description of sleep.
(or)
b) Write about the NREM Sleep.

Part C

Answer the following in 600 words

(5x7=35)

1. a) Explain in detail about the concept of chemical transmission.
(or)
b) Elucidate the biological roots of physiological psychology.
- 2.a) Enumerate the functions of Acetylcholine.
(or)
b) Draw the structure of synapse and explain its functions.
- 3.a) Explain the ventricular system and production of CSF.
(or)
b) Explain Central Nervous System.
- 4.a) Explain in detail the method of brain stimulating and recording of brain activity.
(or)
b) Enumerate the anatomy of visual System.
- 5.a) Briefly describe the disorders of sleep.
(or)
b) Define sleep. Explain Functions of sleep.