

Time : 1 hour 15 Minute

STD 11 Science Biology
chapter Based Test

Total Marks : 40

SECTION A

* Choose The Right Answer From The Given Options.[1 Marks Each] [6]

- Respiratory centre is situated in:
(A) Cerebellum. (B) Medulla oblongata.
(C) Hypothalamus. (D) Cerebrum.
- Eustachian tube connects.
(A) Internal pharynx.
(B) External ear with internal ear.
(C) Middle ear with pharynx.
(D) External ear with middle ear.
- Which cells are affected in case of vitamin A deficiency?
(A) Rod cells. (B) Cone cells.
(C) Both (a) and (b). (D) Neither (a) nor (b).
- Alzheimer disease in humans is associated with the deficiency of:
(A) Glutamic acid. (B) Acetylcholine.
(C) Dopamine. (D) None of these.
- Ecdysis is shedding of:
(A) Stratum corneum. (B) Epidermis. (C) Dermis. (D) Stratum Malpighi.
- The function of vagus nerve innervating the heart is to:
(A) Initiate the heart beat. (B) Reduce the heart beat.
(C) Accelerate the heart beat. (D) Maintain constant heart beat.

* Answer The Following Questions In One Sentence.[1 Marks Each] [5]

- The autonomic nervous system is considered as involuntary nervous system. Why?
- What is the function ascribed to Eustachian tube?
- Why are neurons excitable?
- Why does synapse act as a one-way valve?
- Name the two divisions of the autonomic neural system.

SECTION B

* Given Section consists of questions of 2 marks each. [10]

1.

Distinguish between impulse conduction in a myelinated nerve fibre and unmyelinated nerve fibre.

2. Answer briefly:

How does the eye regulate the amount of light that falls on the retina.

3. Answer briefly:

How do you perceive the colour of an object?

4. Give one function of the following:

- i. Medulla.
- ii. Hypothalamus.

5. Explain parasympathetic neural system.

SECTION C

* Given Section consists of questions of 3 marks each.

[9]

1. How is an action potential achieved during impulse conduction through an axon? Explain.

2. a. Name the cranial meninges that cover the brain.

b. Give one function of the following:

- i. Cerebrum.
- ii. Hypothalamus.
- iii. Medulla.
- iv. Cerebellum.

3. Describe the three types of neurons based on the number of axons and dendrons, and their locations in human body.

SECTION E

* Given Section consists of questions of 5 marks each.

[10]

1. Briefly describe the structure of brain.

2. Describe the structure of the human eye with a well labeled diagram.

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