



BIOLOGY

BOOKS - FULL MARKS BIOLOGY (TAMIL ENGLISH)

NERVOUS SYSTEM

I Text Book Evaluation Choose The Correct Answer

1. Bipolar neurons are found in_____

A. retina of eye

B. cerebral cortex

C. embryo

D. respiratory epithelium

Answer: A

C	Watch Video Solution						
2.	Site	for	processing	of	vision,hearing		
memory,specech,intelligence and throught is							
ļ	A. kidney						
E	3. ear						
(C. brain						
D. lungs							
Answer: C							
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3. Oin reflex action, the reflex arc is formed by_

A. brain, spinal cord, muscle

B. receptor, muscle, spinal cord

C. muscle, receptor, brain

D. receptor, spinal cord, muscle

Answer: B

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4. Dendrites transmit impulse_____cell body and axon transmit

impulse____ cell body.

A. away from, away from

B. towards, away from

C. towards, towards

D. away from, towards

Answer: B

D Watch Video Solution

5. The outer most of the three cranial menings is_____

A. arachnoid membrane

B. piamater

C. duramater

D. myelin sheath

Answer: C

6. There are _____pairs of cranial nerves and ______ pairs of spinal nerves. A. 12, 31 B. 31, 12 C. 12, 13 D. 12, 21

Answer: A



7. The neurons which carries impulse from the central nervous system to the muscle fibre.

A. afferent neurons

B. association neuron

C. efferent neuron

D. unipolar neuron

Answer: C

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8. Which nervous band connects the two cerebal hemispheres

of braiin?

A. thalamus

B. hypothalamus

C. corpus callosum

D. pons

Answer: C

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9. Node of ranvier is found in____

A. muscles

B. axons

C. dendrites

D. cyton

Answer: B

10. Vomiting centre is located in____

A. medulla oblongata

B. stomach

C. cerebrum

D. hypothalamus

Answer: A

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11. Nerve cells do not possess__

A. neurilemma

B. sarcolemma

C. axon

D. dendrites

Answer: B



12. A person who met with an accident lost control of body temprature ,water balance and hunger.Which of the following part of brain is supposed to be damaged?

A. medulla oblongata

B. cerebrum

C. pons

D. hypothalamus

Answer: D





Ii Text Book Evaluation Fill In The Blanks

1.____ is the longest cell in our body .

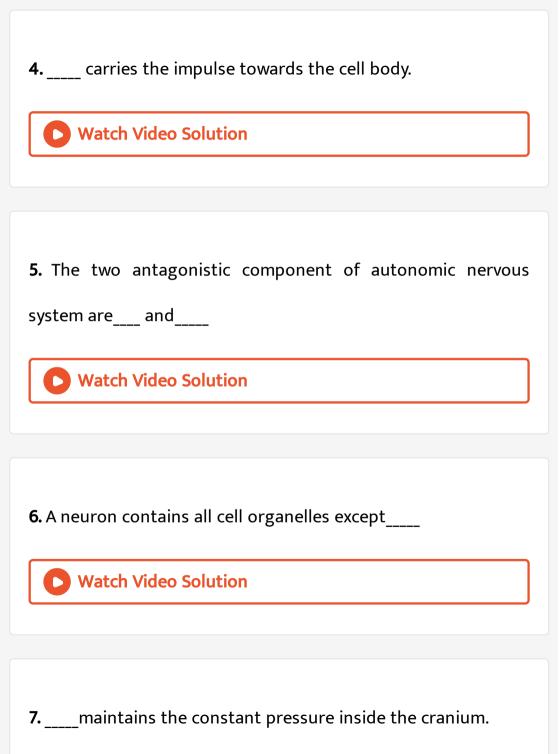
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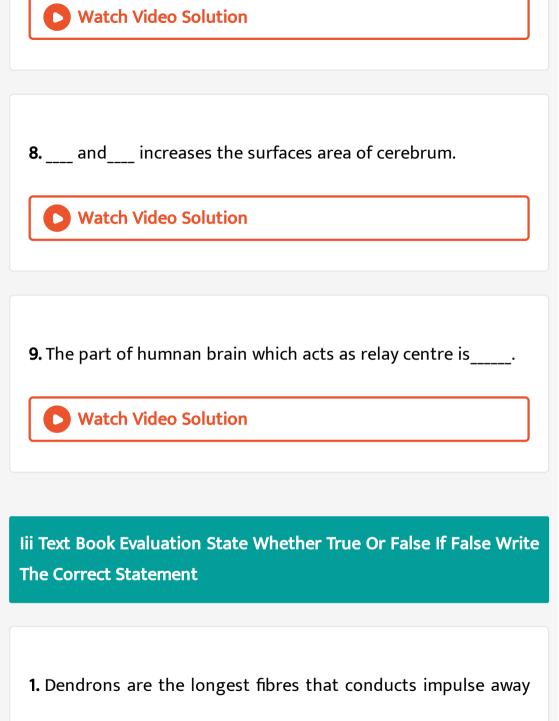
2. Impulses travels rapidly in _____ neurons

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3. A change in the environment that causes an animnal to react

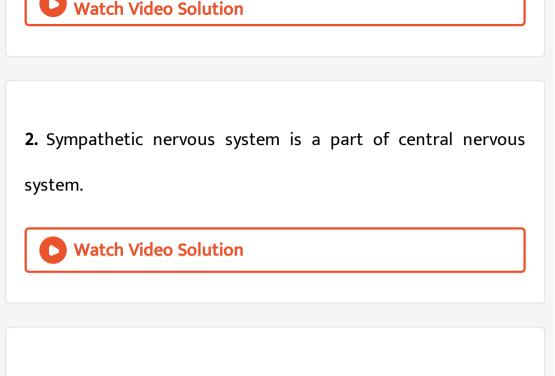
is called____





from the cell body.





3. Hypothalamus is the thermoregulatory centre of human body.

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4. Cerebrum controls the voluntary actions of our body.



5. In the central nervous system mylinated fibres from the white

matter.

Vatch Video Solution				
6. All the nerves in the body are covered and protected by				
meaninges.				
Watch Video Solution				
7. Cerebrospinal fluid provides nutrition to brain				
O Watch Video Solution				

8. Reflex arc allows the rapid response of the body to a stimulus.



9. Pons helps in regulating respiration.

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Iv Text Book Evaluation Match The Following

1.

Column I

- 1. Nissil's granules (a) l
- 2. Hypothalamus (b)
- 3. Cerebellum (c
- 4. Schwann cell –

- Column II
- a) Forebrain
 -) Peripheral Nervous system
- (c) Cyton
 - (d) Hindbrain

V Text Book Evaluation Understand The Assertion Statement

1. Asseration : cerebrospinal fluid is present throughtout the central nervous system . Reasons : cerebrospinal fluid has no such functions.

A. Assertion is correct and reason is wrong

B. Reason is correct and the assertion is wrong

C. Both assertion and reason are correct

D. Both assertion and reason are wrong

Answer: A

2. Assertion:Corpus callosum is present in space between the duramater and piamater.

Reason: It serves to maintain the constant intracanial pressure.

A. Assertion is correct and reason is wrong

B. Reason is correct and the assertion is wrong

C. Both assertion and reason are correct

D. Both assertion and reason are wrong

Answer: D

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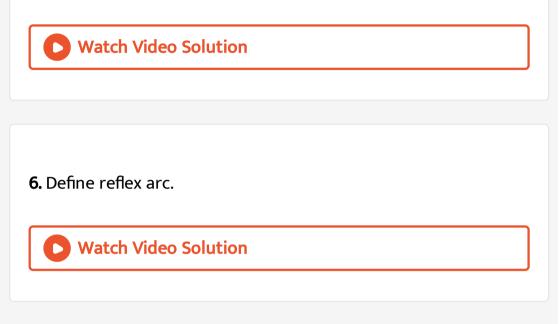
Vi Text Book Evaluation Short Answer Questions

1.	Define	stimu	us.

O Watch Video Solution					
2. Name the parts of the mind hind brain.					
Vatch Video Solution					
3. What are the structures involved in the protection of brain?					
Vatch Video Solution					
4. Give an example for conditioned reflexes.					

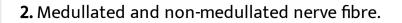
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5. Which acts as a link between the nervous system and endocrine system?



Vii Text Book Evaluation Differentiate Between

1. Voluntary and involuntary actions.



Viii Text Book Evaluation Long Answer Questions

1. Explain the structure of a neuron.

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2. Illustrate the structure and functions of brain.



3. What will you do if someone pricks yourhand with a needle? Elucidate the pathway of response with a neat labelled diagram.

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4. Explain in the structure of spinal cord.



5. How nerve impulses are transferred from one neuron to next

neuron?

6. Classify neurons based on its structure.

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Ix Text Book Evaluation Hots

1. A' is a cylindrical that begins from the lower end of medulla and extend downwards.It is enclosed in bony cage'B'and covered by membranes 'C'.As many as 'D' pairs of nerves arise from the structure'A'(i)What is A?

(ii)Name (a)bony cage 'B'and (b)membranes 'C'

(iii)How mcuh is D?

2. Our body contains a large number of cells 'L' which are the longest cells in the body. L has long and short branch called as 'M' and 'N' respectively. There is a gap 'O' between two 'L' cells, through which nerve impulse transfer by release of chemical substance 'P'.

(i) Name the cells L

(ii) What are M and N?

(iii) What is the gap O?

(iv) Name the chemical substance P

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Textbook Activites Solved Activity

1. Activity-1

Create a model of a neuron using clay or beads.



2. Activity-2

You must say the colour of the word but not the name of the

word.

View Text Solution

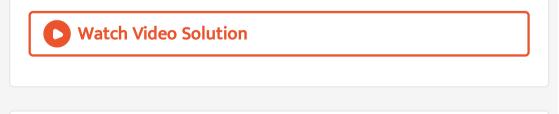
3. Activity-3

Use the letter and number code to decode the given information:

 The condition needed for the co-ordination between the various cells and organ for the diverse activities is called......

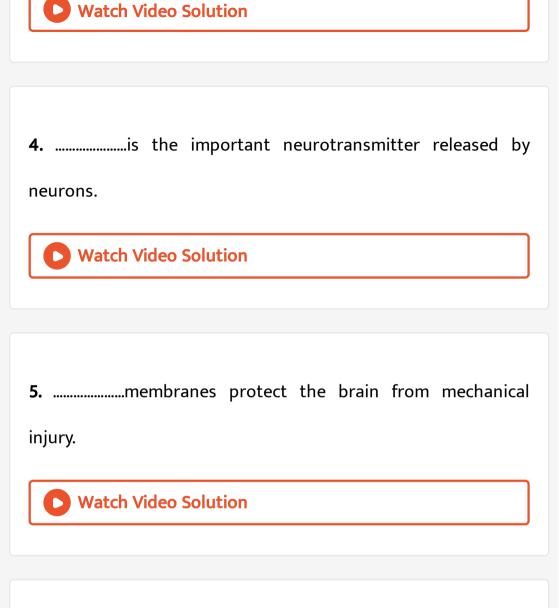
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2. A number of nerve fibres bundled up together to form.....



3. The other name for cyton is cell body or.....

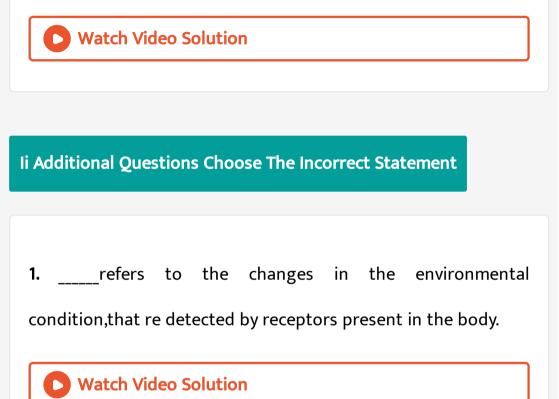




6. Four rounded bodies found in mid brain

7. The Posterior most region of spinal cord tapers into a fibrous

thread like structures called......



2. The brain is the controlling centre of all the body activities.

3. Axon carries impulses towards the cyton.

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4. CNS consists of all nerves, which connect brain and spinal

cord to all parts of the body.

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5. A receptor is a cell or group of cells that receives the stimuli.



Iii Additional Questions Match The Following

1.

3.

4

5.

Pons

Brain

- 1. Neuroglia (a) Conduct nerve impulses
- 2. Electrical impulse
 - (b)Connects the lobe of cerebellum
 - Cerebrospinal fluid (c)
 - (d) Do not conduct nerve impulses
 - Dendrites (e) Information from the receptor

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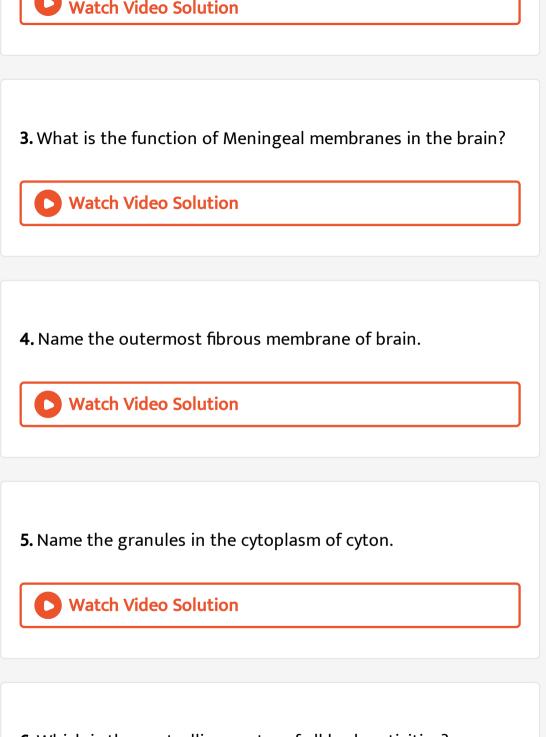
Iv Additional Questions Answer The Following In A Word Or With **A Sentence**

1. What is Spinal Reflexes?

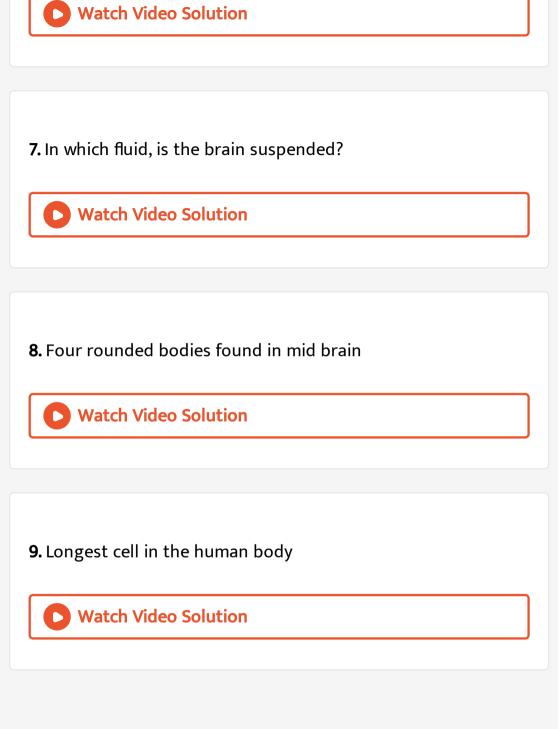


2. What are Motor or efferent neuron?

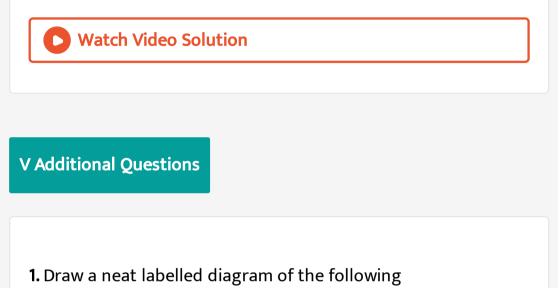




6. Which is the controlling centre of all body activities?



10. Name the tapered spinal cord into a thin thread like structure present in the posterior most region.



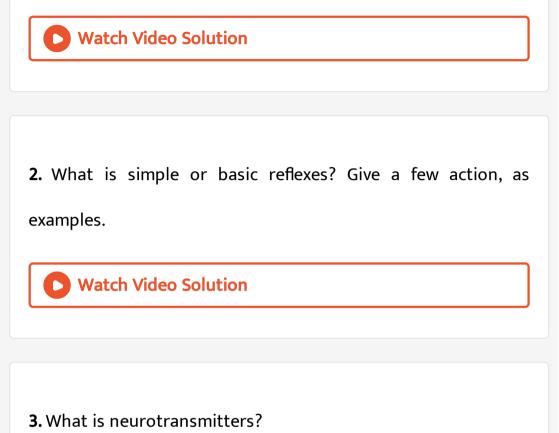
(a) Brain (b) Structure of Spinal Cord (c) Nerve impulse

transmission



Vi Additional Questions Answer The Following Briefly

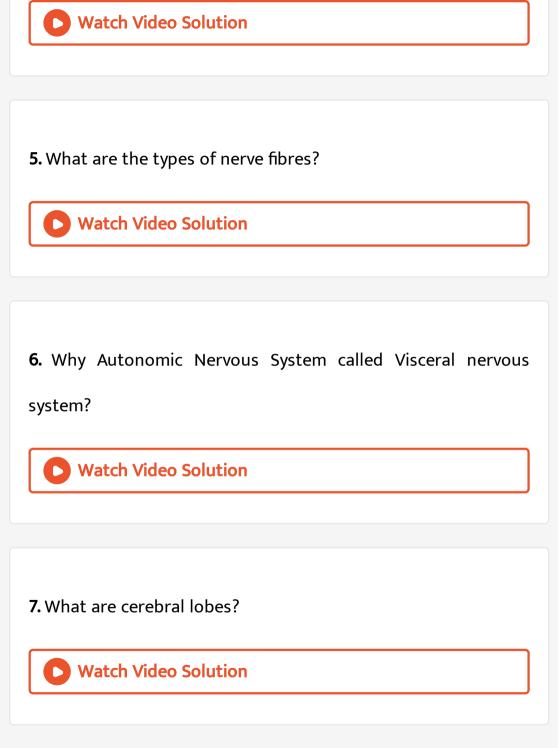
1. Explain the Synaptic transmission.





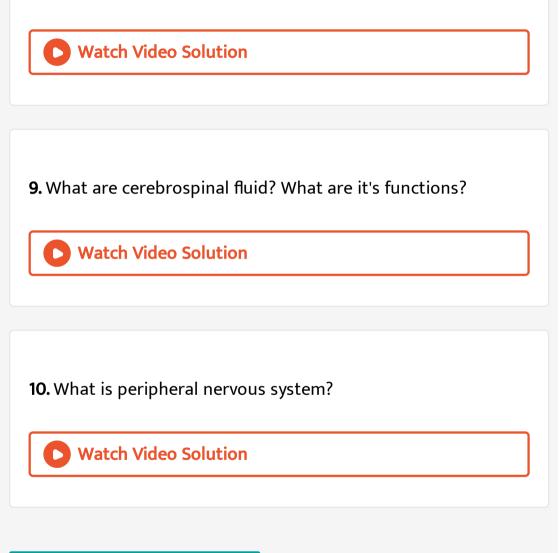
4. Name the second largest part of the brain. What are its

function?



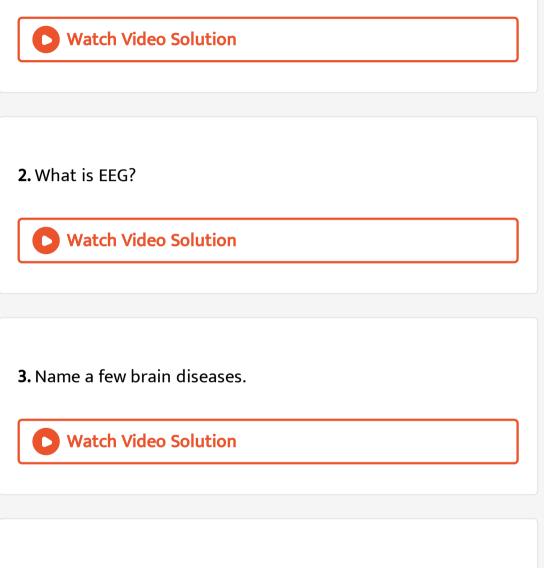
8. (a) What is myelin sheath?

(b) How are neurons classified based on function?



Vii Additional Questions Hots

1. Give two examples for conditional reflexion.



4. What are brain injuries? Give examples.

5. What are the symptoms of stroke

