EINSTEIN'S ACADEMY

10TH SCIENCE

UNIT – 15

	10 X 1 -10		
1. There are pairs of	cranial nerves andpairs of spinal nerves.		
(a) 12,31	(b) 31,12		
(c) 12,13	(d) 12,21		
2. Site for processing of vision, hearing, memory, speech, intelligence and thought is			
(a) kidney	(b) ear		
(c) brain	(d) lungs		
3. Dendrites transmit impuls	cell body and axon transmit impulsecell body.		
a) away from, away from	b) towards, away from		
(c) towards,towards	(d) away from, towards		
4. Bipolar neurons are found in			
a) retina of eye	b) cerebral cortex		
c) embryo	d) respiratory epithelium		
5. Site for processing of vision, hearing, memory, speech, intelligence and thought is			
a) kidney	b) ear		
c) brain	d) lungs		
6. Which nervous band connects the two cerebral hemispheres of brain?			
a) thalamus b) hypothalamus			
c) corpus callosum d)	pons		
7. The outer most of the three cranial meninges is			
a) arachnoid membrane	b) piamater		
c) duramater	d) myelin sheath		
8. The neurons which carries	s impulse from the central nervous system to the muscle fibre.		
a) afferent neurons	b) association neuron		
c) efferent neuron	d) unipolar neuron		

9. Node of Ranvier is four	nd in	
a) muscles	b) axons	
c) dendrites	d) cyton	
10. Vomiting centre is loc	ated in	
a) medulla oblongata	b) stomach	
c) cerebrum	d) hypothalam	
II. Fill in the blanks		3x1=3
	est cell in our body.	
2. A neuron contains all c		
3. The part of human bra	in which acts as relay center is	
III. State whether true or	false, if false write the correct	statement 2 x 1=2
1. Sympathetic nervous s	ystem is a part central nervou	s system.
2. Cerebrospinal fluid pro	ovides nutrition to brain.	
3		
IV. Match the following		
		(2)
A. Nissil's granules - F	Forebrain	
B. Hypothalamus - P	Peripheral Nervous system	
C. Cerebellum - C	yton	
D. Schwann cell -h	Hindbrain	
V Short answer question	(answer any five)	
		9 x 2 =18
1. Voluntary and involunt	ary actions.	
2. Define stimulus.		
3. Name the parts of the	hind brain.	

4. What are the structures involved in the protection of brain?

- 5. Give an example for conditioned reflexes.
- 6. Define reflex arc.
- 7. Differentiate between voluntary and involuntary actions.
- 8. Differentiate between medullated and non-medullated nerve fibre.
- 9. Medullated and non-medullated nerve fibre.
- VI. Long answer question

3 x5=15

- 1. Illustrate the structure and functions of brain.
- 2. With a neat labelled diagram explain the structure of a neuron.
- 3. What will you do if someone pricks your hand with a needle? Elucidate the pathway of response with a neat labelled diagram.