GPLUS EDUCATION

Dat Tin Mai			BIOLOGY		
	NEURAL C	ONTROL AND COORDINA	TION		
		Single Correct Answer Type			
1.	Which one is correct about the p	hysiology of eye?			
		he intraocular pressure) is about 1.	5 mm Hg (0.2 kPa)		
	b) When light is shone in one eye				
	c) The pupils dilate when the eye	-			
2.	d) The aqueous humour is an ultipart of ear where sound is transc	-			
۷.	a) Tympanic membrane	b) Malleus, incus ar	nd etange		
	c) Semi-circular canal	d) Cochlea	iu stapes		
3.	•	and you notice your heart is beating	g fast and mouth is dry. It is		
	because of		g		
	a) Fight and flight response	b) Autonomic nerv	ous system		
	c) Sympathetic nervous system	d) Both (a) and (c)			
4.		nd of one neuron, it is conducted to	the adjacent neuron through		
	the secretions of				
	a) Acetaldehyde	b) Acetylcholine			
_	c) Acetylcholine esterase	d) Acetyl Co-A			
5.	The reflex pathway comprises a) One afferent neuron	h) One efferent neur	b) One efferent neuron		
	c) One afferent and one efferent ne		d) One afferent and one receptor neuron		
6.	The highly specialized cells called n	•	•		
	a) Detect stimuli b) Receiv	ve stimuli c) Transmit stimuli	d) All of the above		
7.	If a motor nerve has a conduction	n velocity of $10~\mathrm{ms^{-1}}$, how long wil	l it take an action potential to		
	reach a muscle 0.75 m from the s	•			
0	a) 75 m b) 1.07 r	•	d) 1.4 m		
8.	Which of the following statements a I. Located between the thalamus/hy				
	II. Has a canal named cerebral aque	-			
	III. Dorsal part consists of 4 lobes	F			
	Choose the correct option				
	a) I and II b) II and	-	d) I, II and III		
9.		aptic neuron may or may not be separa			
10.		receptor gap c) Synapse pora quadrigemina to cerebellum i:	d) Synaptic cleft		
10.		of Vieussens c) Corpus callosum			
11.	What kind of neural organization ca	•	wy dor pus suratum		
	a) Simple neural system	b) Complex neural sy	vstem		
	c) Highly developed neural system	d) Very poor neural			
12.		ılse across synaptic cleft is primaril			
	a) A chemical event b) A phy	sical event c) An electrical eve	nt d) A biological event		

13.	3. During the conduction of nerve impulse, the repolarization occurs with the						
	a) Influx of K ⁺ ions	b) Influx of Na ⁺ ions					
	c) Efflux of K ⁺ ions	d) Efflux of Mg ²⁺ ions					
14.	How many pairs of spinal nerve are found in hu	man?					
	a) 32 b) 31	c) 30	d) 33				
15.	Which of the following are the properties of neural s	*	•				
	a) Conductivity and elasticity	b) Excitability and elastic	ity				
	c) Flexibility and excitability	d) Excitability and condu	_				
16.	Which part of brain controls intellectual ability?	•	J				
	a) Frontal lobe b) Parietal lobe	c) Temporal lobe	d) Occipital lobe				
17.	Which of these processes occur during repolaris	•					
	I. Open Na ⁺ channel						
	II. Closed Na ⁺ channel						
	III. Closed K ⁺ channel						
	IV. Open K ⁺ channel						
	a) II and IV b) I and III	c) II and III	d) I and II				
18.		-	-				
10.	Choose the correct option for A, B	1 and looksb in colour	L				
	a) A-blood vessels, B-bluish	b) A-connective tissue, B-	redish				
	c) A-bipolar cells, B-blackish	d) A-muscle fibre, B-brownish					
19.	Which pair of systems jointly coordinate and integra						
	in a synchronized fashion?	>	- g,				
	a) Neural and respiratory	b) Neural and digestive sy	ystem				
	c) Neural and endocrine system	d) Neural and circulatory					
20.	Photoreceptor cells that contains the light sensitive	proteins are called					
	a) Rhodopigments b) Photopigments	c) Conopigments	d) None of these				
21.	The specific region of hypothalamus, responsib	le for physiological sweat	t secretion is				
	a) Para-ventricular nucleus	b) Supra-optic nucleus					
	c) Median eminence	d) Pars distalis					
22.	A 22 years student goes to his ophthalamologis	t. He has problem in read	ing books because he is				
	not be able to contract his						
	a) Suspensory ligament	b) Pupil					
	c) Iris	d) Ciliary muscles					
23.	The accumulation of protein called amyloid β —	=	causes				
	a) Addison's disease	b) Huntington's disease					
	c) Alzheimer's disease	d) Motor-neuron disease					
24.	A structure of neuron comprises of	,					
	a) Cell body, synaptic knob, ganglia	b) Synaptic vesicles, gang	lia, dendrites				
	c) Cell body, dendrites, ganglia	d) Cell body, dendrites, as					
25.	The process of response to a peripheral nervous stir						
	a) Reflactory potential b) Action potential	c) Reflex action	d) Activation potential				
26.	The adult human eyeball is nearly a structure						
	a) Oval b) Circular	c) Opaque	d) Spherical				
27.	The sympathetic and parasympathetic neural system	n combines to form					
	a) Somatic neural system	b) Autonomic neural syst					
	c) Central neural system	d) Peripheral neural syste	em				
28.	1	-					
	a) Hydroxyproline	b) Hydroxylysine					

		Opius Luuruni.
	c) Cystine	d) γ-amino butyric acid
29.	In a man, abducens nerve is injured. Which one	-
	a) Movement of the eye ball	b) Swallowing
	c) Movement of the tongue	d) Movement of the neck
30.	Which of the following parts of a neuron is cove	red by fatty sheath?
	a) Axon b) Cyton	c) Dendrite d) Node of Ranvier
31.	The system that transmits impulses from CNS to ske	eletal muscles is
	a) Sympathetic neural system	b) Parasympathetic neural system
	c) Somatic neural system	d) Autonomic neural system
32.	The pressure on either sides of the ear drum gets eq	
	a) Pinna b) Eustachian tube	c) Cochlea d) Labyrinth
33.	The diagram given below is the functional organizat	ion of the human nervous system. identify A, B, C, D
	and <i>E</i> in the figure	•
	Human Neural System	
	<u>B</u>	
	Brain Spinal cord C Somatic Neural	
	Brain Spinal cord C Somatic Neural System	
	a) A-PNS, B-CNS, C-ANS, D-Sympathetic nervous sys	tem E-Parasymnathetic nervous system
	b) A-ANS, B-CNS, C-PNS, D-Sympathetic nervous sys	
	c) A-CNS, B-PNS, C-ANS, D-Sympathetic nervous sys	
	d) A-ANS, B-PNS, C-ANS, D-Sympathetic nervous sys	
34.	The state of the s	fusion due to concentration gradients, if allowed
511	would drive	rasion due to concentration gradients, it anowed
	a) K ⁺ into the cell	b) K ⁺ and Na ⁺ out of the cell
	c) Na ⁺ into the cell	d) Na ⁺ out of the cell
25		d) Na Out of the cen
33.	Which is a part of spinal cord?	a) Ventual annal
26	a) Central canal b) Ventricle	c) Ventral canal d) Enterocoel
30.	Mark the following statements as true/false and cho	
	I. Neuroglial cells are the packing and supporting ce	•
	II. Oligodendrocytes is a category of glial cells that for III. Microglia provides mechanical support to the ne	•
	IV. Astrocytes communicate with one another throu	
	Codes	gn potassium channels
	I II III IV	
	a) True True False False	b) False True True False
	c) False False True True	d) True False True False
37.	For quick coordination, our neural system is organized	-
571	a) Organ to organ connections	b) Cell to cell connections
	c) Point to point connections	d) Point to cell connections
38	Saltatory conduction occurs in	aj i onic to cen connections
501	a) Myelinated nerves fibres	b) Non-myelinated nerve fibres
	-	-
20	c) Liver cells	d) All of the above
39.	Action of lysozyme is	N. 1.1.1.1.1.2.2.2.2.2.2.2.2.2.2.2.2.2.2.
4.0	a) Physiological b) Anatomical	c) Morphological d) None of these
40.		eract and complement the functions of one another, is
	called	

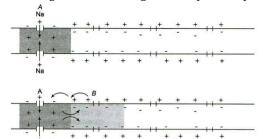
			Gpius Eaucation
	a) Coordination	b) Homeostasis	
	c) Chemical integration	d) Transmission of impuls	se
41.	Skeletal muscles are controlled by		
	a) Sympathetic nerves	b) Parasympathetic ner	ves
	c) Somatic nerves	d) Autonomic nerves	
42.	Yellow spot of eye is known for		
	a) Complex blood vascular system	b) High pigmentation	
	c) Preponderance of cones	d) Possession of abdunc	lant rods
43.	Middle ear of humans contains ossicles, i. e.,		
	a) Malleus b) Incus	c) Stapes	d) All of these
44.	Mechanism of neural coordination involves		
	a) Transmission of nerve impulse	b) Impulse conduction act	ross a synapse
	c) Physiology of reflex action	d) All of the above	
45.	Which converts short time memory into long tir	ne remembrance?	
	a) Reticular system b) Hippocampus	c) Thalamus	d) Medulla oblongata
46.	During the transmission of nerve impulse throu	gh a nerve fibre, the pote	ntial on the inner side of
	the plasma membrane has which type of electric	c charge?	
	a) First negative, then positive and again back to	negative	
	b) First positive, then negative and continue to b	e negative	
	c) First negative, then positive and continue to b	e positive	
	d) First positive, then negative and again back to		
47.	Read the following statements.	>	
	I.Preganglionic nerve fibres of III, VII, IX and X c	ranial nerves are a part o	f the parasympathetic
	nervous system	•	
	II.V,VII, IX and X cranial nerves are mixed nerve	S.	
	III.Trochlear nerves are the largest cranial nerve		
	IV.Abducens nerves are motor nerves and origin	23 1 1 1 1 1 1 1 1 1	anglia.
	Which of the above statements are correct?	0	8
	a) I and IV b) I and II	c) II and III	d) I and III
48.	There are two types of photoreceptor cells, i. e.,A.	-	
	Here, A and B refers to		b bb8
	a) A-rods; B-cones	b) A-cones; B-rhodopsin	
	c) A-rhodopsin; B-rods	d) A-rods; B-fovea	
49.	Which is not a reflex action?		
	a) Salivation	b) Eye opening and clos	ing
	c) Response to pinching pin in a frog leg	d) Sweating	
50.	A nerve impulse is transmitted from one neuron to a	· ·	ns called
	a) Neuromuscular junction	b) Neuroreceptor junction	n
	c) Neurosynaptic junction	d) Neuroglandular junctio	on
51.	The afferent nerve fibres transmit impulses		
	a) From tissues/organs to the CNS		
	b) From the CNS to the smooth muscles		
	c) From the CNS to the concerned peripheral tissues	/organs	
	d) From the CNS to the involuntary organs		
52.	Which of the damaged cells cannot be repaired?		
	a) Liver cells b) Brain cells	c) Bone cells	d) Epidermal cells
53.	The system that transmits impulse from the CNS to t	he involuntary organs and	smooth muscles of the
	body		

a) Sympathetic neural system

b) Parasympathetic neural system

c) Somatic neural system

- d) Autonomic neural system
- 54. Given is the diagrammatic representation of impulse conduction through an axon (at points A and B). View the diagram and arrange the steps of impulse conduction



- I. The polarity of the membrane at site A is reversed and depolarized, i.e., the outer surface becomes negatively charged and the innerside becomes positively charged, generating nerve impulse
- II. A stimulus causes disturbance to the membrane at site of A nerve fibre resulting in leakage of Na⁺ ions inside the nerve fibre
- III. On the outer surface, current flows from site B to site A to complete the circuit of current flow. Hence, the polarity at the site is reversed, and an action potential is generated at site B. The impulse (action potential) generated at site A arrives at site B. The sequence is repeated along the length of the axon and consequently the impulse is conducted
- IV. Immediately ahead, the axon (e, g), site B) membrane has a positive charge on the outer surface and a negative charge on its inner surface. As a result, a current flows on the inner surface from site A to site B The correct option is

a)
$$I \rightarrow II \rightarrow IV \rightarrow III$$

b) II
$$\rightarrow$$
 I \rightarrow III \rightarrow IV

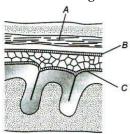
c) II
$$\rightarrow$$
 I \rightarrow IV \rightarrow III

c)
$$II \rightarrow I \rightarrow IV \rightarrow III$$
 d) $I \rightarrow IV \rightarrow III \rightarrow II$

- 55. Identify the basic functions of neural system
 - a) Receiving sensory input from internal and external environment by nerves
 - b) Processing the input information
 - c) Responding to stimuli
 - d) All of the above
- 56. How many laminae are present in the grey matter of spinal cord?
 - a) Four
- b) Six

- c) Eight
- d) Ten

- 57. Number of cranial nerves in frog
 - a) 10 pairs
- b) 9 pairs
- c) 12 pairs
- d) None of these
- 58. Given is the diagram of human brain showing meninges. Identify *A* and *C*



- a) A-Piamater, B-Arachnoid membrane, C-Duramaterb) A-Duramater, B-Arachnoid membrane, C-Piamater
- c) A-Arachnoid membrane, B-Piamater, C-Duramaterd) A-Arachnoid membrane, B-Duramater, C-Piamater
- 59. Reflex action is controlled by
 - a) Sympathetic nervous system

b) Autonomous nervous system

c) Spinal cord

- d) Peripheral nervous system
- 60. Vitreous chamber, which is filled by vitreous humor is the space
 - a) Behind the lens

b) In front of lens

c) between choroid and retina

d) between choroid and sclera

61.	Organ of Cort	ti is found in				
	a) Heart	b)	Kidneys		c) Inner ear	d) Nasal chamber
62.	During repo	olarisation of n	erve			
	a) K ⁺ gate c	lose and Na ⁺ ga	ate opens			
	b) Na ⁺ chan	nels are close a	nd K ⁺ channe	els are o _l	pens	
	c) Both gate	es remain open				
	d) Both K ⁺ a	ind Na ⁺ gates a	re close			
63.	Choose the in	ncorrect options	regarding whi	te matter	of the brain	
	I. White mat	ter of the brain is	s white in colo	ır		
	II. White mat	tter of the brain	is white in colo	ur but so	metimes it is found to be a	grey
			-	-	edullated nerve fibres	
		tter of the brain		ell bodies		
	a) I and III		II and IV		c) I and IV	d) II and III
64.		following neuro				
	a) Afferent n		Efferent neur	on	c) Interneuron	d) Both (b) and (c)
65.	_	inal cord, combi	-) D (1 () 1 (1)	IN NT I .
	a) CNS	,	PNS		c) Both (a) and (b)	d) Neural system
66.		are the part of		-) M	13.57
<i>-</i> -	a) Epithelia		Connective t	issue	c) Muscles tissue	d) Nervous tissue
67.	-	is protected by				15
	a) Trachea	,	Aorta	_	c) Sternum	d) Vertebral column
68.				enses for	correcting vision. While no	t using the glasses, the image
		bject in his case v		9		
	a) On the bl		Behind the r		c) In front of retina	d) On the yellow spot
69.		of nature of nerv	•	erves are		
	-	d and non-medu		DILL	b) Myelinated and non-nd) Sensory and motor ne	-
70		notor and mixed		factost m	eans of communication w	
70.	a) Endocrine		Nervous syste		c) Circulatory system	d) Digestive system
71	-	-			outside to inside is	uj Digestive system
, 11		er → arachnoid	_	111 11 0111	b) arachnoid → duram	ater → niamater
		→ duramater	-		d) duramater → piama	
72.				onism ov	er a particular organ?	ter aracimola
	Organs	Sympathetic	Parasym		or a particular organi	
	2.9	Nervous	pathetic			

0	rgans	N	ympathetic ervous ystem	pa N	arasym athetic ervous ystem	
a)	Gastric glands		Stimulates secretion of gastric juice		Reduces bile secretion, increases release of sugar	
b)	Intestina glands	ıl	Decreases secretion of intestinal juice		Promotes secretion o intestinal juice	f
c)	Pancreas	5	Promotes bil secretion	e	Increases storage of sugar as glycogen	

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	d) Salivary glands	Stimulates secretion of saliva	Inhibits secretion of saliva		- -
73.	The cutaneo		ie papillary plexu	s consists	
		-	ovide dermal sen		
		_	rovide dermal su		
		-	eous sensations		
	=		taneous secretio	ns	
74.	-		tial propagation		
		dent of an axon			
	_		of the myelin aro	ound the axon	
	=		xon becomes dem		
		n non-myelinat		J	
75.		roid plexus is p			
	a) Floor of di			b) Cerebral hemispher	res
	c) Roof of die			d) Roof of medulla obl	
76.		-	which part of car		O
	a) Shutter	b) L	-	c) Glass	d) Film
77.	-	-	loes 'A' represent	•	•
			Aus EDII	CATION	
	a) Pons Varo	lii b) C	erebellum	c) Medulla oblongata	d) Midbrain
78.	is not inv	olved in knee-jer	k reflex		
	a) Muscle spin		lotor neuron	c) Brain	d) Interneurons
79.				any cells, like nerve cells.	It works against
		_	d involve of ATP ι		
			out and 2K ⁺ are t		
			and 2K ⁺ are pum	_	
	-		out and 3K ⁺ are a		
	=		, 3Na ⁺ are pumpe		
80.			cture which is pres		
	-	of axon terminal		b) At the node of Ranvie	
01	c) In the cell b	-	- CC + -	d) At the end of dendrit	es
σ1.		ervous system		a) Internal	d) None of the co-
၀၁	a) Reflex acti	ons	ensory organs	c) Internal organs	d) None of these
04.	a) Na ⁺ in and	=	mp is to move [a ⁺ out and K ⁺ in	c) Na ⁺ out and Cl ⁻ in	d) Cl [–] out and Na ⁺ in

d) All the nerves of the body associated with the CNS c) Both (a) and (b) 84. Read the following statements carefully and select the correct option

b) Spinal cord

I. The medulla is connected to the spinal cord

83. The PNS comprises of

a) Brain

	II. Medulla contains controlling centres for respiration, cardiovascular reflexes and gastric secretion						
	III. Cerebellum has very convoluted surface in order	r to provide the additional s	pace for more neurons				
	a) Only I b) I and II	c) Only III	d) I, II and III				
85.	The respiratory rhythm centre is present in the	!					
	a) Cerebrum	b) Cerebellum					
	c) Hypothalamus	d) Medulla oblongata					
86.	Which of the following is the correct function of end		ce to chemical				
	coordination?						
	a) Provides neural integration through hormones						
	b) Provides chemical integration through hormone	S					
	c) Provides an organized network of point to point		rdination				
	d) None of the above	•					
87.	Consider the statements as True/False						
	I. The axoplasm inside the axon contains high conce	entration of K ⁺ and negative	ely charged proteins				
	II. The axoplam inside the axon contains low concer	-					
	III. The fluid outside the axon contains a low concer	ntration of K ⁺					
	IV. The fluid outside the axon contains a high conce	ntration of Na ⁺ and negativ	ely charged proteins				
	The correct option is						
	a) I-True, II-False, III-False, IV-True	b) I-True, II- True, III-Fals	se, IV- False				
	c) I-True, II- True, III- True, IV- False	d) I- False, II- True, III-Fa	lse, IV- False				
88.	Maintenance of the ionic gradients across the resting	g membrane is done by the					
	a) Active transport of ions	b) Passive transport of io					
	c) Active transport of proteins	d) Passive transport of pr	roteins				
89.	How many pairs of cranial nerves are found in hum						
	a) 10 pairs b) 11 pairs	c) 12 pairs	d) 13 pairs				
90.	Which part of the brain is involved in loss of co	ntrol when a person drin	ks alcohol?				
	a) Cerebellum b) Cerebrum	c) Medulla oblongata	d) Pons Varolii				
91.	Ependymal cells	LATION					
	a) Ciliated cells	b) Type of epithelial cells					
	c) Lines the cavities of the central nervous system	d) All of the above					
92.	In the blind spot, where the optic nerves leave	-					
	a) Rods and cones are absent	b) Only cones are prese	ent				
	c) Only rods are present	d) Special neurons are j	present				
93.	Association areas of the brain are						
	a) Always sensory areas	b) Always motor areas					
	c) Neither sensory nor motor areas	d) None of the above					
94.	Study of structure, functions and disease of the nerv	-					
	a) Nervology b) Endocrinology	c) Neurology	d) Endoneurology				
95.	Which of the following statements are correct for R	AS?					
	I. It screens sensory information						
	II. It is important in overall activation and arousal						
	III. It is concerned with involuntary movements						
	IV. It is the seat of learning, memory, reasoning and		771 L 1 (L				
0.6	a) I and II Which is not a part of hindbrain?	c) II and IV	d) I and IV				
70.	Which is not a part of hindbrain?	a) Danie II - 111	J M. J. 11				
05	a) Thalamus b) Cerebellum	c) Pons Varolii	d) Medulla				
97.	Which of the following statements are correct for in	1S <i>?</i>					
	I. The ciliary body extends forward to form iris						
	II. It is pigmented and opaque structure						

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				Opids Eddodies.
	III. It is the visible coloured	d portion of the eye		•
	Choose the correct option	b) I and III	a) II and III	d) I II and III
0.0	a) I and II	b) I and III	c) II and III	d) I, II and III
70.	Brain depends on blood	for the supply of	h) Ourran and alastralize	too
	a) Oxygen and glucose		b) Oxygen and electroly	ies
00	c) Oxygen and ATP	<i>C</i> :1 +1	d) ATP and glucose	
99.	In the axon of motor ner	ve fibre, the herve impu		
	a) Towards cell body		b) Away from cell body	
400	c) Away from synapse		d) In both directions	
100	Rods and cones are pres			
	a) Iris	b) Cornea	c) Sclerotic	d) Retina
101	Synaptic vesicle is found	lin		
	a) Pre-synaptic neuron		b) Post-synaptic neuron	
	c) Synaptic cleft		d) None of these	
102	Which one of the followi	ing is an example of nega	ative feedback loop in hu	mans?
	a) Constriction of skin b	lood vessels and contrac	tion of skeletal muscles v	when it is too cold
	b) Secretion of tears afte	er falling of sand particle	s into the eyes	
	c) Salivation of mouth at	the sight of delicious fo	od	
	d) Secretion of sweat gla	nds and constriction of s	skin blood vessels when i	it is too hot
103	. The brain can be divided in	nto		
	a) Telencephalon, Rhombe		1	
	b) Mesencephalon, Telence		P	
	c) Prosencephalon, Mesen	The 120		
	d) Diencenphalon, Proseno			
104	Under prolonged starva		=-	
	a) Carbohydrates	b) Fats	c) Proteins	d) Acetoacetate
105	. Coiled portion of the labyr		WITON	
406	a) Cochlea	b) Ear drum	c) Pinna	d) Ear canal
106	Pneumotaxic centre is p			12
	a) Cerebrum	b) Cerebellum	c) Medulla oblongata	d) Pons Varolii
107	Sympathetic nervous sys	stem induces		
	a) Heat beat		b) Secretion of semen	
	c) Secretion of saliva		d) Secretion of digestive	juices
108	. Which of the following is c			
			ns are separated by a gap c	
			n the transmission of impul	
	-	• •	er than that across an electr	rical synapse
	IV. Chemical synapses are		a) Land II	d) I II III and IV
100	-	b) II and III	c) I and II	d) I, II, III and IV
109	What used to be describ	_		
110		b) Mitochondria	c) Cell metabolities	d) Fat granules
110.	. Which of the following is k			
111	•	b) PNS	c) Both (a) and (b)	d) Neurons
111.	Injury to vagus nerve in	numan is not likely to af		o
	a) Tongue movements		b) Gastrointestinal move	ements
140	c) Pancreatic secretion		d) Cardiac movements	
112.	The human neural system	-	a) Dath (-) 1 (1)	d) Name of the
	a) PNS only	b) CNS only	c) Both (a) and (b)	d) None of these

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113. Association areas are a) Cerebrum			
artelelliulli	e regions found in b) Cerebral cortex	c) Cerebellum	d) Diencephalon
114. A neuron is a str	_	c) cerebenum	d) Diencephalon
a) Microscopic	b) Symmetrical	c) Non-microscopic	d) Glant
115. Photoreceptor cells of		ej Non inicroscopie	d) diane
a) Rods	b) Cones	c) Both (a) and (b)	d) Ganglion cells
116. Parkinsonism is relate		o) 2001 (u) unu (2)	a, adingiron cons
a) Brain	b) Spinal cord	c) Cranial nerves	d) Spinal nerves
117. Protein found in ey	•	,	,
a) Crystalline	b) Collagen	c) Opsin	d) Rhodopsin
- 0	es of the action of the autono	•	•
a) Knee-jerk respon		b) Papillary reflex	
c) Swallowing of fo		d) Peristalsis of the in	testines
_	orms the nervous system in ani		
a) Merodermal	b) Ectodermal	c) Endodermal	d) None of these
120. Which part of the h		oj Endodormai	a, none or mose
a) Cerebellum	b) Thalamus	c) Cerebrum	d) Medulla oblongata
	lline structure which is held in		9
called the	mile ser decare willen is nerd in	piace by inguintenes accaem	ea to the emary body, is
a) Ciliary body	b) Lens	c) Iris	d) Pupil
	ate definition for neuroglial		7
a) Non-sensory sup		b) Secretory cells	
c) Sensory cells	1	d) Sensory and suppo	rting cells
123. Brain controls the		, comeany unit ouppe	
a) Voluntary movem	ents	b) Balance of the body	
	al involuntary organs	d) All of the above	
124. Myelin sheath is de	and the same of th	CATION	
		with the transfer	1) 411 (.1
a) Neuroglial cells	b) Schwann cells	c) Nerve cells	d) All of these
a) Neuroglial cells125. The forebrain consist	b) Schwann cells ts of	c) Nerve cells	a) All of these
_		c) Nerve cells c) Hypothalamus	d) All of these
125. The forebrain consist	ts of b) Thalamus	•	-
125. The forebrain consist a) Cerebrum	ts of b) Thalamus	•	-
125. The forebrain consistsa) Cerebrum126. In humans, pneumota) Thalamus127. Hypothalamus control	ts of b) Thalamus axic centre is present in b) Pons region of brain ols	c) Hypothalamus	d) All of these
 125. The forebrain consists a) Cerebrum 126. In humans, pneumot a) Thalamus 127. Hypothalamus control I. urge for eating and 	ts of b) Thalamus axic centre is present in b) Pons region of brain ols	c) Hypothalamus	d) All of these
 125. The forebrain consists a) Cerebrum 126. In humans, pneumot a) Thalamus 127. Hypothalamus control I. urge for eating and II. thermoregulation 	ts of b) Thalamus axic centre is present in b) Pons region of brain ols drinking	c) Hypothalamus c) Right hemisphere	d) All of these
 125. The forebrain consists a) Cerebrum 126. In humans, pneumot a) Thalamus 127. Hypothalamus control I. urge for eating and II. thermoregulation III. hormones product 	ts of b) Thalamus axic centre is present in b) Pons region of brain ols drinking ction that regulates the secretic	c) Hypothalamus c) Right hemisphere	d) All of these
 125. The forebrain consists a) Cerebrum 126. In humans, pneumot a) Thalamus 127. Hypothalamus control I. urge for eating and II. thermoregulation III. hormones productive thinking 	ts of b) Thalamus axic centre is present in b) Pons region of brain ols drinking ction that regulates the secretic and consciousness	c) Hypothalamus c) Right hemisphere on of pituitary gland	d) All of these d) Left hemisphere
 125. The forebrain consists a) Cerebrum 126. In humans, pneumot a) Thalamus 127. Hypothalamus control I. urge for eating and II. thermoregulation III. hormones product IV. creative thinking a) I and III are correct 	ts of b) Thalamus axic centre is present in b) Pons region of brain ols drinking ction that regulates the secretic and consciousness ct b) II and III are correct	c) Hypothalamus c) Right hemisphere on of pituitary gland c) I and II are correct	d) All of these
125. The forebrain consist a) Cerebrum 126. In humans, pneumot a) Thalamus 127. Hypothalamus control I. urge for eating and II. thermoregulation III. hormones produc IV. creative thinking a) I and III are correct 128. Which centre is stirtless.	ts of b) Thalamus axic centre is present in b) Pons region of brain ols drinking ction that regulates the secretic and consciousness ct b) II and III are correct mulated during increase in b	c) Hypothalamus c) Right hemisphere on of pituitary gland c) I and II are correct ody temperature?	d) All of these d) Left hemisphere d) I, II and III are correct
125. The forebrain consist a) Cerebrum 126. In humans, pneumot a) Thalamus 127. Hypothalamus control I. urge for eating and II. thermoregulation III. hormones product IV. creative thinking a) I and III are correct 128. Which centre is stin a) Anterior hypothalamus	ts of b) Thalamus axic centre is present in b) Pons region of brain ols drinking ction that regulates the secretic and consciousness ct b) II and III are correct mulated during increase in b	c) Hypothalamus c) Right hemisphere on of pituitary gland c) I and II are correct ody temperature? b) Posterior hypothala	d) All of these d) Left hemisphere d) I, II and III are correct
125. The forebrain consist a) Cerebrum 126. In humans, pneumot a) Thalamus 127. Hypothalamus control I. urge for eating and II. thermoregulation III. hormones product IV. creative thinking a) I and III are correct 128. Which centre is stima) Anterior hypothatic) Limbic system	ts of b) Thalamus axic centre is present in b) Pons region of brain ols drinking ction that regulates the secretic and consciousness ct b) II and III are correct mulated during increase in b alamus	c) Hypothalamus c) Right hemisphere on of pituitary gland c) I and II are correct ody temperature?	d) All of these d) Left hemisphere d) I, II and III are correct
125. The forebrain consist a) Cerebrum 126. In humans, pneumot a) Thalamus 127. Hypothalamus control I. urge for eating and II. thermoregulation III. hormones product IV. creative thinking a) I and III are correct 128. Which centre is stimally a Anterior hypothatic control Limbic system 129. Give movements are	ts of b) Thalamus axic centre is present in b) Pons region of brain ols drinking ction that regulates the secretic and consciousness ct b) II and III are correct mulated during increase in b alamus controlled by	c) Hypothalamus c) Right hemisphere on of pituitary gland c) I and II are correct ody temperature? b) Posterior hypothala	d) All of these d) Left hemisphere d) I, II and III are correct
125. The forebrain consist a) Cerebrum 126. In humans, pneumot a) Thalamus 127. Hypothalamus control I. urge for eating and II. thermoregulation III. hormones product IV. creative thinking a) I and III are correct 128. Which centre is stima) Anterior hypothatic) Limbic system 129. Give movements are I. Gastrointestinal more	ts of b) Thalamus axic centre is present in b) Pons region of brain ols drinking ction that regulates the secretic and consciousness ct b) II and III are correct mulated during increase in b alamus controlled by ovement	c) Hypothalamus c) Right hemisphere on of pituitary gland c) I and II are correct ody temperature? b) Posterior hypothala	d) All of these d) Left hemisphere d) I, II and III are correct
125. The forebrain consist a) Cerebrum 126. In humans, pneumot a) Thalamus 127. Hypothalamus control I. urge for eating and II. thermoregulation III. hormones product IV. creative thinking a) I and III are correct 128. Which centre is stimally Anterior hypothatic) Limbic system 129. Give movements are I. Gastrointestinal model. Pancreatic movements	ts of b) Thalamus axic centre is present in b) Pons region of brain ols drinking ction that regulates the secretic and consciousness ct b) II and III are correct mulated during increase in b alamus controlled by ovement eent	c) Hypothalamus c) Right hemisphere on of pituitary gland c) I and II are correct ody temperature? b) Posterior hypothala	d) All of these d) Left hemisphere d) I, II and III are correct
125. The forebrain consist a) Cerebrum 126. In humans, pneumot a) Thalamus 127. Hypothalamus control I. urge for eating and II. thermoregulation III. hormones product IV. creative thinking a) I and III are correct 128. Which centre is stima) Anterior hypothatic) Limbic system 129. Give movements are I. Gastrointestinal model. Pancreatic movements.	ts of b) Thalamus axic centre is present in b) Pons region of brain ols drinking ction that regulates the secretic and consciousness ct b) II and III are correct mulated during increase in b alamus controlled by ovement nent	c) Hypothalamus c) Right hemisphere on of pituitary gland c) I and II are correct ody temperature? b) Posterior hypothala	d) All of these d) Left hemisphere d) I, II and III are correct
125. The forebrain consist a) Cerebrum 126. In humans, pneumot a) Thalamus 127. Hypothalamus control I. urge for eating and II. thermoregulation III. hormones product IV. creative thinking a) I and III are correct 128. Which centre is stima) Anterior hypothatic) Limbic system 129. Give movements are I. Gastrointestinal modern III. Pancreatic movements III. Tongue movements Select the correct optics.	ts of b) Thalamus axic centre is present in b) Pons region of brain ols drinking ction that regulates the secretic and consciousness ct b) II and III are correct mulated during increase in b alamus controlled by ovement nent nt tion	c) Hypothalamus c) Right hemisphere on of pituitary gland c) I and II are correct ody temperature? b) Posterior hypothala d) Red nucleus	d) All of these d) Left hemisphere d) I, II and III are correct
125. The forebrain consist a) Cerebrum 126. In humans, pneumot a) Thalamus 127. Hypothalamus control I. urge for eating and II. thermoregulation III. hormones product IV. creative thinking a) I and III are correct 128. Which centre is stima) Anterior hypothatic) Limbic system 129. Give movements are I. Gastrointestinal model. Pancreatic movements.	ts of b) Thalamus axic centre is present in b) Pons region of brain ols drinking ction that regulates the secretic and consciousness ct b) II and III are correct mulated during increase in b alamus controlled by ovement nent nt tion lled by vagus nerve	c) Hypothalamus c) Right hemisphere on of pituitary gland c) I and II are correct ody temperature? b) Posterior hypothala	d) All of these d) Left hemisphere d) I, II and III are correct amus

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- a) The range of human hearing is from 20 Hz to 20 kHz
- b) Conductive hearing loss would be evident if a person had a similar degree of hearing loss for air conduction and bone conduction
- c) The ear is most sensitive to frequencies between about 100 Hz and 300 Hz
- d) The endolymph of the scala media is similar in composition to plasma
- 131. Given below the hormones present in human body
 - I. Cortisone
 - II. Acetylcholine
 - III. Epinephrine

Choose the correct option regarding these hormones

a) I and II are neurotransmitter

b) I and III are neurotransmitter

c) II and III are neurotransmitter

d) All are neurotransmitter

- 132. In dark adaptation,
 - a) Only cones are involved

b) Only rods are involved

- c) Both (a) and (b)

d) Neither rods nor cones are involved

- 133. Dreaming occurs in
 - a) α -sleep
- b) REM sleep
- c) Deep sleep
- d) Slow wave sleep

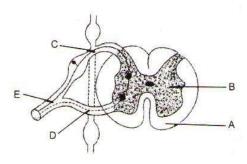
- 134. Node of Ranvier is found in
 - a) Muscle bundles
- b) Dendrite
- c) Right auricle
- d) Axon

- 135. Aqueous and vitreous humour are divided by
 - a) Lens
- b) Iris

- c) Retina
- d) Optic nerve

- 136. Cerebellum is concerned with the
 - a) Contraction of voluntary muscles
- b) Coordinating and regulation muscles tone
- c) Maintaining posture orientation and equilibrium d) All of the above of body
- 137. Unidirectional transmission of a nerve impulse through nerve fibre is due to the fact that
 - a) Nerve fibre is insulated by a medullary sheath
 - b) Sodium pump starts operating only at the cyton and then continues into the nerve fibre
 - c) Neurotransmitters are released by dendrites and not by axon endings
 - d) Neurotransmitters are released by the axon endings and not by dendrites
- 138. The TV cranial nerve is
 - a) Oculomotor
- b) Trochlear
- c) Olfactory
- d) Facial

139. In a cross-section of the spinal cord A, B, C, D and E represents



- a) A-White matter, B-Grey matter, C-Dorsal matter, D-Ventral root, E-Spinal nerve
- b) A-White matter, B-Grey matter, C-Ventral root, D-Dorsal root, E-Spinal nerve
- c) A-Grey matter, B-White matter, C-Ventral matter, D-Dorsal root, E-Spinal matter
- d) A-Grey matter, B-White matter, C-Dorsal root, D-Ventral root, E-Spinal nerve
- 140. By which nervous system and of what type, the blood is supplied into visceral organs?

- a) Sympathetic nervous system, voluntary
- b) Sympathetic nervous system, involuntary
- c) Parasympathetic nervous system, involuntary
- d) Both SNS and PNS, involuntary
- 141. Light falls on retina and its amount is regulated by
 - a) Iris

- b) Ciliary muscles
- c) Cornea
- d) Lens

- 142. Blind spot is called to because of
 - a) The presence of photoreceptor cells
- b) Presence of optic nerves
- c) The absence of photoreceptor cells
- d) None of the above
- 143. If dorsal nerve of spinal cord is broken down then
 - a) No impulse is transmitted

b) Impulse is transmitted but slowly

c) Impulse is transmitted fast

- d) No effect on impulse
- 144. Arrange the given structures in the correct sequence of pathway of light from outside to inside the eyeball of human eye
 - I. Lens
 - II. Aqueous humour
 - III. Vitreous humour
 - IV. Cornea

Choose the correct sequence

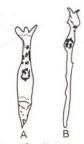
- a) IV, II, I, III
- b) I, II, III, IV
- c) IV, III, II, I
- d) I, IV, II, III

- 145. Which of the following is not correct for rods?
 - I. Twilight vision is the function of the rods
 - II. It is responsible for daylight vision sometimes
 - III. The rods contain a protein called rhodopsin
 - IV. Rods are photoreceptor cells

Choose the correct option

- a) Only I
- b) Only II
- c) I and III
- d) II and III

- 146. Three major components of human eyeball are
 - a) Lens, aqueous humor and vitreous humor
 - c) Cornea, lens and optic nerve
- b) Lens, iris and optic nerve
- d) Cornea, lens and iris
- 147. Examine the diagram of the two cell types A and B given below and select the correct option.



- a) Cell-A is the rod cell found evenly all over retina
- b) Cell-A is the cone cell more concentrated in the fovea centralis
- c) Cell-B is concerned with colour vision in bright light
- d) Cell-A is sensitive to low light intensities
- 148. Which of the following is not correctly matched?
 - a) Rhinencephalon-Olfactory

b) Hypothalamus-Pituitary

c) Cerebellum-Balance

- d) Medulla oblongata-Temperature regulation
- 149. When we do physical exercises, the energy demand is increased for
 - a) Increasing the chemical coordination
- b) Providing the chemical integration
- c) Integrating all the activities of the organs
- d) Maintaining an increased muscular activity

				Opius Luucutio
150.	I. There are regular masse	es of ribosomes	s from the codes given belo	w
	II. There are irregular mas			
	III. There are granular boo			
	IV. They synthesise protei	ns in the cell		
	codes	h) Land III	a) Land IV	d) II III and IV
151	a) Only IOlfactory lobes of man a	b) I and III	c) I and IV	d) II, III and IV
131.	<u> </u>		c) Erros and hollow	ال دمانا
152	a) Fused and hollow	b) Fused and solid	c) Free and hollow	d) Solid
152.	-	e thermoreceptors which		J) D .
150	a) Fishes	b) Man	c) Reptiles	d) Bats
153.	Vertebrate brain differe) D . 1	D.D I
	a) Endoderm	b) Mesoderm	c) Ectoderm	d) Blastoderm
154.	The choroid layer of huma	2		
	a) Thin over the posterior			
	b) Thick over the posterio			
	c) Coloured over the ante	rior 2/3 of eyedall the anterior 4/3 of eyeball		
155		correct for pupil of human	01/07	
133.	I. It is the aperture surrou	• •	eye:	
	-	regulated by muscle fibre	s of iris	
	= =	talline structure attached t		
	The correct option is			
	a) Only I	b) Only III	c) I and II	d) I, II and III
156.		es out a number of branc	ches?	
	a) Optic	b) Facial	c) Vagus	d) Trigeminal
157.	TheA receives signal f	rom a sensory organ and t	ransmits the impulse <i>via</i> a	_
			es signals fromC to the	D
	-	for A, B, C and D to comple	-	
	=	ferent neuron, C-CNS, D-ef		
		ferent neuron, C-effector, I		
	•	ferent neuron, C-CNS, D-ef		
150	=	ferent neuron, C-effector, I		·
158.		=	ying the nerve fibres ori	ginating from the
	Edinger-Westphal nucle) A1 1	12.11
450	a) Oculomotor	b) Trochlear	c) Abducens	d) Vagus
159.	= =	cises, the energy demand i		d) Doth (a) and (b)
160	a) Increased	b) Decreased	c) Not effected	d) Both (a) and (b)
100.	_		e regulation of body tem	
1.61	a) Medulla oblongata	b) Cerebellum	c) Cerebrum	d) Hypothalamus
101.	-		in the organisation of hu	man ear as an auditory
	mechanoreceptor organ		M II C. I	A 11.
		=	-Malleus-Stapes-Incus-	
	b) nerve	mbrane— Auditory cana	ıl—Incus —Malleus— Stap	es-Cochlea-Auditory
	c) Pinna—Malleus—Incu	s–stapes–Auditory can	al—Tympanic membrane	–Cochlea–Auditory
	d) Pinna—Tympanic me	mbrane—Auditory canal	—Cochlea—Malleus—Inci	ıs—Stanes-Auditory

nerve

162.	162. Thalamus is a structure wrapped by cerebrum, is									
	a) A major centre for motor signaling				b) A major coordinating centre for sensory and motor signaling				ry and	
	-	A major coor only	dinating cen	tre for senso	ory signal	d)	Not a nervou	ıs part of a bı	rain	
163.	Wł	nen different	cones of hur	nan eye are s	stimulated e	qual	ly, a sensatio	on of ligh	t is produced	l
		Red) White		_	Green	_	l) Blue	
164.	Ült	ra violet rad	diation fron	r n sun cause:	s which of t	he f	ollowing di	sorder of ey	ves?	
		Cataract					Glaucoma	J		
	-	Dilation of p	nunil				Some defec	t of retina		
165		•	•	ments are co	orrect about	-			se the correc	t codes
105.	giv	en below	_	ments are co	orrect about	tiic	cortex or cer	cbaiii. Giioo	se the correc	coucs
		t consists of g								
		It shows pror								
		It consists of								
		It contains m	notor areas, s	sensory area	s and associa	atio	n areas			
		des	-					,		
	-	Only I) I and II	•	-	I, II and IV	d	l) I, III and IV	
166.		e vestibular a		human ear i	s composed		0. 1.1			
	-	Oval window				_	Otolith organ			
4.68		Three semici			11:00		Both (b) and		11 (
16/.	_		•		rect differe	nce	between ro	d cells and	cone cells of	retina?
		Feature	Rod cell	Cone cell						
	a)	Visual	High	Low	-	b)	Visual	Iodopsin	Rhodops	
		acuity					pigment		in	
			G	PLUS	EDUC	ÌΑ.	containe d			
	c)	Overall	Vision in	Colour]	d)	Distribut	More	Evenly	
	,	function	poor	vision		,	ion	concentr	distribut	
		runction	light	and			1011	ated in	ed all	
			O	detailed				centre of	over	
				vision in				retina	retina	
				bright						
				light						
168.	Hu	ıman tears c	ontains an	enzyme						
	a) [Lysozyme	b) Rennin		c)	Protease	d	l) Peptidase	
169.	.W	nich of the fol	llowing state	ments are co	orrect for a n	erv	e cell?			
	I. E	ach neuron l	nas a cell boo	ly						
	II.	Each neuron	has a single	axon						
	III.	Each neuron	ı has a varial	ole number o	f dendrites					
	IV.	Neurons are	the function	al units of ne	ervous syste	m				
	Sel	ect the corre	ct option							
	a) :	I and IV	b) I, II and III		c) .	All are incor	rect d	l) All are corr	ect
170.	Str	ucturally w	hat are olfa	ctory nerve	cells?					
	a) [Multipolar r	neurons			b)	Unipolar ne	eurons		
	c)	Neurochem	ically specia	alized neuro	ons	d)	Bipolar neu	rons		
171.	171. Given is the diagram of human eye. Identify A and E									



- a) Aqueous chamber \rightarrow Ciliary body \rightarrow Iris \rightarrow Blindspot \rightarrow Sclera
- b) Aqueous chamber \rightarrow Ciliary body \rightarrow Sclera \rightarrow Blindspot \rightarrow Iris
- c) Aqueous chamber \rightarrow Ciliary body \rightarrow Blindspot \rightarrow Iris \rightarrow Sclera
- d) Ciliary body \rightarrow Aqueous chamber \rightarrow Blindspot \rightarrow Iris \rightarrow Sclera
- 172. Which of the following is cochlear duct?
 - a) Scala vestibule
- b) Scala tympani
- c) Scala media
- d) None of these

- 173. Pneumotaxic centre is present in the
 - a) Pons varoli

b) Cerebellum

c) Corpora quadrigemina

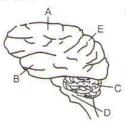
- d) Corpus stratum
- 174. Which of the following is the part of midbrain of rabbit?
 - a) Diencephalon

b) Cerebrum

c) Corpora quadrigemina

d) None of these

- 175. Arbor vitae is composed of
 - a) Grey matter
- b) Neurogleal cells
- c) White matter
- d) All of these
- 176. In the diagram of the lateral view of the human brain, parts are indicated by alphabets. Choose the answer in which these alphabets have been correctly matched with the part which they indicate.



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a) A- Temporal lobe

B-Parietal lobe

C- Cerebellum

D-Medulla oblongata

E-Frontal lobe

b) A- Frontal lobe

B-Temporal lobe

C- Cerebrum

D-Medulla oblongata

E-Occipital lobe

c) A-Temporal lobe

B-Parietal lobe

C- Cerebrum

D-Medulla oblongata

E-Frontal lobe

d) A- Frontal lobe

B-Temporal lobe

C- Cerebellum

D-Medulla oblongata

E-Parietal lobe

- 177. Medulla oblongata is originated from
 - a) Ectoderm
- b) Mesoderm
- c) Endoderm
- d) Ectomesoderm

- 178. The forebrain develops into
 - a) Diencephalon and pons

b) Diencephalon and medulla

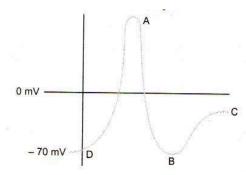
c) Diencephalon and cerebrum

- d) Diencephalon and cerebellum
- 179. Which of the following statement is correct for Iter?

	,	e like core of white matter,		
	b) It is a very narrow cavi	ty, the cerebral aqueduct, e	extends through the forebra	ain
	c) It is a very narrow cavi	ty, the cerebral aqueduct, e	extends through the midbra	ain
	d) It connects the pons va	rolii and cerebellum		
180	'Adaptation' of eyes in c	lark is due to		
	a) Depletion of vision pi	igment in rod	b) Depletion of vision p	igment in cones
	c) Repletion of vision pi	gment in rods	d) Repletion of vision pi	igment in cones
181	. Which of the following s	statements is correct reg	arding receptors in the s	kin?
	a) All skin receptors are	-		
	•	of touch receptors are un	iform in area	
	-	e skin are bare nerve en		
	-	on from the skin reaches	<u> </u>	column nathway
182	. Nerve impulse travels fast		the brain via the aorsar	coranni patriway
102	a) Medullated nerve fibre		b) Non- medullated nerve	fihre
	c) Both (a) and (b)		d) None of the above	· HBTC
183	If an organism has more	rods it will	a) None of the above	
100	a) Active during day	c roas, it will	b) Possess colour vision	1
	c) Active during night		d) Both (a) and (a) are	
104	. The cell body of neuron co	antains of	uj botii (a) aliu (a) ale j	possible
104	a) Cytoplasm	b) Cell organelles	c) Granular bodies	d) All of these
185	. Connection between ax	,	c) dramaiai bodies	uj Ali oi tilese
105	a) Synapse	b) Synapsis	c) Desmosome	d) Tight junction
106	• •	The state of		u) right junction
100	a) Always inhibitory	ne, the new potential devel		
	c) May be excitatory or in	hibitory	b) Always excitatoryd) Neither excitatory nor	inhihitany
197		goes to the external rectu		illillibitor y
107			1 A TT / / 1 L L	9) Al
100	a) II	b) III	c) VII	d) VI
188	Number of spinal nerve) 05	10.45
	a) 27 pairs	b) 31 pairs	c) 37 pairs	d) 47 pairs
189		ritive cells found in the b		
	a) Ependymal cells	b) Microglia	c) Astrocytes	d) Oligodendrocytes
190	. Which of the following s	substances leads to the ir	nhibition of central nervo	ous system?
	a) Glycine	b) GABA	c) Norepinephrine	d) Both (a) and (b)
191	-	is concerned with hearing?		
	a) Reissner's membrane a			
	b) Reissner's membrane a	and tectorial membrane		
	c) Ampulla			
	d) Basilar membrane and			
192	-	ntral pit in the yellowish		
	a) Blind spot	b) Retina	c) Cornea	d) Macula lutea
193	Which foramen is paire	d in mammalian brain?		
	a) Foramen of Luschka		b) Foramen of Magendi	е
	c) Foramen of Monro		d) Inter-ventricular fora	amen
194	. Dendrites transmit impul	ses towards the		
	a) Cell body	b) Axon	c) Both (a) and (b)	d) None of these
195	. Centre for thinking and	learning is present in wh	nich part of brain?	
	a) Cerebrum	b) Cerebellum	c) Dienceohalon	d) Medulla oblongata

		- 1
196. The reflex arc, which is made of two neurons is	known as	
a) Monosynaptic reflex arc	b) Disynaptic reflex are	
c) Polysynaptic reflex arc	d) Asynaptic reflex arc	
197. Bipolar neurons are found in the		
a) Embryonic stage b) Cerebral cortex	c) Cerebellum	d) Retina of eye
198. During the conduction of a nerve impulse, the a		om the movement of
a) K ⁺ ions from extracellular fluid to intracellula		
b) Na ⁺ ions from intracellular fluid to extracellu		
c) K ⁺ ions from intracellular fluid to extracellul		
d) Na ⁺ ions from extracellular fluid to intracellu	ılar fluid	
199. Bipolar neurons occur in		
a) Vertebrate embryos	b) Retina of eye	
c) Brain and spinal cord	d) Skeletal muscles	
200. Which one of the following statements is correct		
a) Neurons regulate endocrine activity, but not		
b) Endocrine glands regulate neural activity and		
c) Neither hormones control neural activity nor		docrine activity
d) Endocrine glands regulate neural activity but	not vice versa	
201. 9th pair of cranial nerve in frog is		
a) Hypoglossal b) Glossopharyngeal	c) Vagus	d) Trigeminal
202. Cerebellum of brain is responsible for	5	
a) The maintenance of equilibrium and posture		
b) Olfactory functions		
c) Controlling optic functions		
d) All of the above		
203. The point in eye of mammals from which optic	Control of the Contro	
a) Yellow spot b) Blind spot	c) Pars optica	d) None of these
204. Cornea transplant in humans is almost never re		
a) Its cells are least penetrable by bacteria	b) It has no blood supp	•
c) It is composed of enucleated cells	d) It is a non-living lay	er
205. In the following abnormalities of the eye, which	one is serious condition	that leads to blindness?
a) Presbyopia b) Myopia	c) Hypermetropia	d) Glaucoma
206. Synaptic knob possesses		
a) Granular vesicles b) Nissl's vesicles	c) Synaptic vesicles	d) None of these
207. Which of the following poet is involved in interp		input information and
initiating a response in the light of similar past	-	
a) Motor area b) Sensory area	c) Association area	d) Pons Varolii
208. Which of the following is not related to the auto		
a) Peristalsis	b) Digestion	
c) Excretion	d) Memory and learning	ıg
209. The wall of the eyeball is composed of layers		
a) One b) Two	c) Three	d) Four
210. The total amount of cerebrospinal fluid in humans is		d) 400 F00 I
a) 1 L b) 2 L 211. Give the correct term for each of the following and c	c) 80-150 mL	d) 400-500 mL
A. Axon or dendron, covered with one or two sheath	_	om the codes given below
B. Bundles of nerve fibres within the centralnervous		

	C. Masses of neurons that	lle in the peripheral hervo	us system	
	D. Masses of neurons clus	tered inside the central ne	rvous system	
	Codes			
	a) A-Nerve fibre, B-Tracts	s, C-Ganglia, D-Nuclei		
	b) A-Tracts, B-Nerve fibre	e, C-Ganglia, D-Nuclei		
	c) A-Ganglia, B-Nuclei, C-'	Tracts, D-Nerve fibre		
	d) A-Ganglia, B-Tracts, C-1	Nerve fibre, D-Nuclei		
212	The amount of CSF in th	ne cranial cavity is		
	a) 500 mL	b) 140 mL	c) 1 L	d) 1.5 mL
213	3. Inside the skull, the brain		,	,
	a) Arachnoid	b) Cranial meninges	c) Piamater	d) Duramater
214	. The rods contains a purpl		oj i idiliacoi	a, baramater
	a) Opsin	b) Rhodopsin	c) Photopsin	d) Iodopsin
215	Which of the following			-
	a) Cornea	b) Choroid	c) Sclera	d) Conjunctiva
216	•		•	•
210	Parkinson's disease (ch			
	-		in movement and contro	ol. Identify the
	neurotransmitter respo			
	a) Acetycholine	b) Norepiephrine	c) Dopamine	d) GABA
217	. Aqueous chamber which	is filled by aqueous humou	r is the space	
	a) Behind the lens		b) Between sclera and ret	tina
	c) Between cornea and le	ns	d) Between choroid and s	clera
218	3. Human ear can be divided	d into		
	a) Outer ear	b) Middle ear	c) Inner ear	d) All of these
219	Which is an example of	conditioned reflex?		
	a) Your keeping took up	a stone then dog run av	vay	
	b) Eye closed when any		ATION	
	c) Hand took up when p		WITOIA	
	• •	orward in alimentary car	nal	
220). Glucose and oxygen are re	= = = = = = = = = = = = = = = = = = =		rol the functions of our
220	body organs.	equired by brain for consta	ine supply of energy to cont	for the functions of our
		ences if brain is deprived o	f ovvgen and glucose?	
	-	en for just 5 minutes will ge		
		the nerve impulse conduc		
	-	-	er side is doing, when it is o	denrived of ovvgen
		results if brain is deprived	=	acprived of oxygen
	a) I and II	b) III and IV	c) I and IV	d) II and IV
221	. The potential difference	•	•	=
221	•			s not snown any
		called resting potential.		
	a) -60 mV	b) - 80 mV	c) +60 mV	d) +90 mV
222	. Which is the visible colou			
	a) Pupil	b) Lens	c) Iris	d) Ciliary body
223	Refer the figure to answ	ver the question.		



Identify the region where all Na⁺ channels are reactivated but closed and all K⁺ channels are closed.

a) D

b) C

c) B

d) A

- 224. The anterior portion of sclera is called
 - a) Iris

- b) Cornea
- c) Ciliary body
- d) Pupil

- 225. Arachnoid membrane is
 - a) Outer meninx
- b) Neurilemma
- c) Middle meninx
- d) Inner meninx

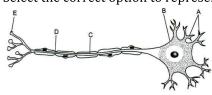
- 226. Cells of Schwann are associated with
 - a) Nervous tissue
- b) Skeletal muscle
- c) Cardiac muscle
- d) Connective tissue

- 227. Reflex action involves
 - a) Spinal cord
- b) Cerebellum
- c) Medulla oblongata
- d) Optic fibre
- 228. In humans, tympanic membrane is composed of connective tissues which is covered with
 - a) Skin outside and with mucus membrane inside
- b) Mucus membrane only
- c) Mucus membrane outside and with skin inside
- d) Skin only

- 229. At blind spot
 - a) Optic nerves leave the eye and retinal blood vessels enter it
 - b) Retinal blood vessels leave the eye and optic nerves enter it
 - c) There is no involvement of optic nerves at all
 - d) There is no involvement of retinal blood vessels at all
- 230. Wax gland present in the human ear canal is called
 - a) Sebaceous gland
- b) Mucous gland
- c) Ceruminous gland
- d) Sweat gland

- 231. Yellow spot is found in
 - a) Muscles
- b) Nerves
- c) Kidney
- d) Eyes

- 232. Function of ear ossicles in human is
 - a) To equalise the pressure on either sides of ear drum
 - b) Collects the vibrations in the air which produce sound
 - c) To increase the efficiency of transmission of sound waves to the inner ear
 - d) All of the above
- 233. Select the correct option to represent A to E in the given structure of a neuron



- a) A-Dendrites, B-Cell body, C-Axon, D-Node of Ranvier, E-Synaptic knob
- b) A- Axon, B-Myelin sheath, C-Schwann cell, D-Node of Ranvier, E-Axon terminal
- c) A-Dendrites, B-Cell body, C-Schwann cell, D-Node of Ranvier, E-Synaptic knob
- d) A-Axon, B-Cell body, C-Dendrites, D-Node of Ranvier, E-Axon terminal
- 234. Sclera of human eye is composed of
 - a) Blood vessels
- b) Ganglion cells
- c) Photoreceptor cells
- d) Connective tissue

235. The nerve centres wh	ich control the body tem	perature and the urge for	eating are controlled by		
a) Hypothalamus	b) Pons	c) Cerebellum	d) Thalamus		
236. Involuntary activities of	f the body are controlled by	y			
a) Autonomic nervous s	system	b) Somatic nervous syste	em		
c) Both (a) and (b)		d) None of the above			
237. The cavity in the region	on of diencephalon in the	e brain of rabbit is called			
a) Iter	b) Third ventricle	c) Lateral ventricle	d) Foramen of Monro		
238. Which one is correct a	about the focusing of the	eye?			
a) Hypermetropia (hy	yperopia) may be correct	ed by a diverging lens			
b) The focus of the eyo	e is controlled exclusivel	y by the parasympathetic	innervation of the ciliary		
c) The lens is the chie	ef refractive element of th	ie eye			
d) When the eye focus	ses on a distant object, th	e ciliary muscle contracts			
239. The part of the brain	where the centre for hun	ger and thirst is located is	1		
a) Cerebrum	b) Hypothalamus	c) Cerebellum	d) Medulla oblongata		
240. Given below are differe	nt components of reflex are	e	_		
I. Effector organ					
II. Interneuron					
III. Motor neuron					
IV. Sensory neuron					
V. Sensory receptor					
		that follows a sensory recept			
a) V, IV, III, II, I	b) V, IV, II, III, I	c) V, III, IV, I, II	d) V, II, IV, III, I		
241. Given below the diagram	m of an axon. Label A to C o	correctly			
A B C	GPLUS EDU	CATION			
a) A-Endoneurium, B-N	leurolemma, C-Nucleus				
-	ndoneurium, C-Schwann ce				
•	B-Neurolemma, C-Schwann				
	ode of Ranvier, C-Schwann	cell			
242. Internal ear is filled w					
a) Perilymph	b) Endolymph	c) Lymph	d) Both (a) and (b)		
243. At the posterior pole of					
a) Corpus luteum	b) Fovea	c) Macula quadrigenina			
244. The electrical potenti	al difference between ou	tside and inside of a nerve	e axon before excitation is		
known as					
a) Resting potential	b) Action potential	c) Spike potential	d) Reaction potential		
_	245. Which of the following statement is incorrect?				
a) CNS is the site of information processing and control					
b) CNS includes brain a	_	L. L. L. L. C. C.			
c) PNS comprises of all the nerves of the body associated with CNSd) The nerve fibre of DNS are of two types, <i>i.e.</i>, afferent and efferent fibres					
	vs are of two types, <i>i.e.,</i> affe	erent and efferent fibres			
246. Taste area lies in the					

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			opius zaucatio
a) Frontal lobe	b) Occipital lobe	c) Parietal lobe	d) Temporal lobe
247. Functions of association a	areas in cerebral cortex inc	ludes	
a) Intersensory association	ons	b) Memory	
c) Communication		d) All of the above	
248. In which of the following	ng, Nissl's granules are fo	und in?	
a) Liver cells		b) Nerve cells	
c) Intestinal cells		d) Uriniferous tubules	
249. The purplish red pigme	ent rhodopsin contained	in the rods type of photo	receptor cells of the
human eyes is a deriva			•
a) Vitamin-C	b) Vitamin-D	c) Vitamin-A	d) Vitamin-B
250. The functions of the orga	•	-	
_	ment with reference to NCE		
a) Muscular activity	b) Homeostasis	c) Respiration	d) Neural coordination
251. Cerebral hemispheres	=	, 1	,
a) Corpus luteum		b) Corpus callosum	
c) Corpus albicans		d) Corpus spongiosum	
252. Multipolar neurons are fo	ound in the	a) doi pus spongiosum	
a) Retina of eye	b) Cerebral cortex	c) Embryonic stage	d) None of these
253. The system, responsible f		, ,	•
coordination, is called	for providing an organized	network of point to point t	omicetions for a quien
a) Endocrine system	b) Circulatory system	c) Digestive system	d) Neural system
254. The nerve fibres are			
a) Myelinated	b) Non-myelinatd	c) Afferent	d) Efferent
255. The black pigment layer i	1 7 1	•	
a) Iris	b) Retina	c) Cornea	d) Sclerotic
256. Which of the following			,
a) Brain	b) Cranial nerves	c) Spinal cord	d) None of these
257. Dilatation of pupil take		ATTON	, mone or anoco
a) Sympathetic nervous		b) Parasympathetic ner	vous system
c) Central nervous syst	•	d) Both (a) and (b)	vous system
		7 7 7	na gallad
258. Ina myelinated neuron			
a) Nodes of Ranvier	b) Synaptic cleft	c) Schwann cells	d) Synaptic knob
259. Which brain structure i	in rabbit is directly relate		
a) Corpus albicans		b) Hippocampal lobe	
c) Corpus callosum		d) Corpora quadrigemii	
260. The following diagram		dentify the parts labeled	as A, B, C, D, E, F and G
and choose the correct	option.		
Α			
15	C		
B			
	TOPE		
	1 ()		

- a) A-Sense organ, B-Sensory nerve, C-Dorsal horn, D-Interneuron, E-Ventral horn, F-Motor nerve, G-Effector
- b) A-Sense organ, B-Sensory nerve, C-Ventral horn, D-Interneuron, E-Dorsal horn, F-Motor nerve, G-Effector

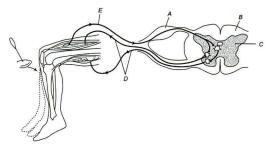
c) A-Sense organ, B-N	lotor nerve, C-Dorsal nor		r nerve, C-ventral norn, D-
D-Interneuron, E-V	entral nerve, F-Sensory	Interneuron, E-Do	rsal horn,
nerve, F-Effector		F-Sensory nerve, G	-Sense organ
261. The gaps between two	adjacent myelin sheaths is o	called	
a) Synapse	b) Synaptic gap	c) Nodes of Ranvier	d) Sheath gap
262. Sympathetic nerve ac	celerates heart beat due	to	
a) Adrenaline	b) Nor-adrenaline	c) Insulin	d) Glucagon
263. Which of the followin		-	, 0
a) Acetylcholine	b) Glutamic acid	c) Epinephrine	d) tyrosine
264. Odd nerve is	~) dididilile deld	ој притеритите	a) tyrosine
a) Optic	b) Oculomotor	c) Olfactory	d) Auditory
265. Axons can be	of oculomotor	c) onactory	a) Haditory
a) Non-myelinated	b) Myelinated	c) Either (a) or (b)	d) None of these
266. Schwann cells, form a n	•	c) Littlei (a) of (b)	u) None of these
a) Dendrite	b) Cell body	c) Nucleus	d) Axon
267. Which of the followin		-	uj Azon
	b) Facial		d) Trigominal
a) Vagus	-	c) Abducens	d) Trigeminal
268. Choroid plexus functi	ons to produce		
a) Lymph		b) Endolymph	
c) Cerebrospinal fluid		d) All of these	
269. Along with hypothalam	us, limbic system is involve	ed in the	
I. thermoregulation	S. A.	2	
II. regulation of sexual l		. 1	
	onal reactions (e . g ., excited	ment, pleasure, rage and fe	ar)
IV. motivation			
Choose the correct opti	ACC	CATHONI	15 1 111 1 177
a) All except I	b) Only I	c) I, III and IV	d) I, III and IV
270. Alzheimer's disease in	n numan is associated wi	•	
a) Dopamine		b) Glutamic acid	
c) Acetylcholine		d) Gamma Amino But	yric Acid (GABA)
271. Which of the following	_		
a) Astrocytes	b) Oligodendrocytes	c) Microgila	d) All of these
272. Outer ear of humans co	nsists of		
a) Pinna		b) External auditory m	eatus
c) Both (a) and (b)		d) Labyrinth	10
273. In eye donation, whic		· · · · · · · · · · · · · · · · · · ·	
a) Retina	b) Cornea	c) Lens	d) Iris
274. At the neuromuscular	function		
a) The muscle membr	rane possesses musculari	iae receptors	
b) The motor nerve en	ndings secrete norepinep	ohrine	
c) Curare leads to pro	olongation of neuromuscu	ular transmission	
d) The motor nerve en	ndings secrete acetylchol	line	
275. Lipofucsin granules a	-		
a) Nerve cell	b) Cardiac muscle	c) Red muscle	d) Cartilage
276. Brain stem is formed by		- j Roa maoore	-, car arage
a) Midbrain and forebra		b) Forebrain and hindb	orain
c) Midbrain and hindbr		d) All of the above	
277. Corti's organs is prese		,	
221 21 2 21 2 21 12 bi co.			

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			-
a) Reissner's membra	ne	b) Scala vestibuli	
c) Basilar membrane		d) Middle lamella	
278. In parasympathetic no	ervous system, which of	following is released?	
a) Epinephrine	b) Norepinephrine	c) Serotonin	d) Acetycholine
279. Following are the steps	of mechanism of vision in	random order	
I. Neural impulses are a	nalysed and image formed	d on retina is recognised by	visual cortex
II. Membrane permeabi	lity changes		
III. Ganglion cells are ex	cited		
IV. Bipolar cells are dep	olarized		
		otic nerves to visual cortex	
	are generated in the pho	-	
		lopsin, leading to the dissoc	ciation of retinal (an aldehyde
of vitamin-A) from opsi	· -		
VIII. Structure of opsin i	_		
Choose the correct sequ		1 2 17111 1711 171 17 17 177 177	
a) I, II, III, IV, V, VI, VII, V		b) VIII, VII, VI, V, IV, III,	
c) I, IV, III, II, VII, VIII, V		d) VII, VIII, II, VI, IV, III,	, V, I
280. Nerve cells do not div	-		d) Mika ala an dari a
a) Nucleus	b) Centrosome	c) Golgi body	d) Mitochondria
281. Arbor vitae is part of	1) 0 1 11)	D.B. J.
a) Cerebrum	b) Cerebellum	c) Midbrain	d) Forebrain
282. In the given diagram, id	entify the components of	CNS from the codes given b	elow
B C C	GPLUS EDU	CATION	
Codes			
a) B and C	b) B and D	c) C and D	d) A and D
283. Vitreous humour is			
a) Colloid		b) Watery fluid	
c) Mucoid connective	tissue	d) All of the above	
284. Sense of smell is perce	eived by		
a) Pituitary	b) Hypothalamus	c) Olfactory lobe	d) Cerebrum
285. In the central nervous		, ,	
	ins many nerve cell bod	lies	
	are formed by Schwani		
•	otected from changes in		
•	luid (CSF) is an ultrafilt	•	
286. Meissner's corpuscles o		or pressure	
a) Brain	b) Nerve cells	c) Skin	d) Tongue
287. The wall of the human ϵ		, 2	7 1011640
a) Sclerotic, choroid and		b) Sclera, cornea and c	horoid
c) Sclera, cornea and cil		d) Sclera, choroid and i	
288. Thermoregulatory cer		<u>-</u>	
a) Cerebrum	b) Cerebellum	c) Hypothalamus	d) Medulla oblongata
289. The axons transmit ner			C

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a) Synapse		b) Dendrite of the same c	ell
c) Axon of another cell		d) All of these	
290. Grey matter of the brain is			
I. present outside the white n	natter		
II. matter containing medulla	ited nerve fibres		
III. grey in colour			
IV. matter containing cell boo			
Which of the statements men			
	Only II	c) I, III and IV	d) II, III and IV
291. In the central nervous syst	em, myelinated fibres	s form the, while the no	on-myelinated fibre cells
form the			
a) Grey matter, white matt	er	b) White matter, grey m	natter
c) Ependymal cells, neuros	secretory cells	d) Neurosecretory cells	, ependymal cells
292. Pneumotaxic centre which	can moderate the fur	nctions of the respiratory	rhythm centre is
present at			
a) Pons region of brain		b) Thalamus	
c) Spinal cord		d) Right cerebral hemis	phere
293. Which of the following cra	nial nerves is present	in rabbit but absent in fr	og?
	Hypoglossal	c) Olfactory	d) Optic
294. Hypothalamus does not co		·	•
a) Hunger and satiety b)		c) Osmoregulation	d) Emotions
295. Arrange the following events		•	auditory impulse in human
ears from the codes given be			
I. Vibration is transferred fro	m the malleus to the inc	cus and then to stapes	
II. Basiliar membrane moves	up and down		
III. Nerve impulse is transmit	tted by cochlear nerve to	o auditory cortex of brain f	or impulse analysis and
recognition	PLUS EDUC	:ATION	
IV. Sound waves pass throug		7112011	
V. Stereocilia of hair cells of o	-	st tectorial membrane	
VI. Sound waves causes ear d			
VII. Nerve impulse is generat		.1 (1 . 1	
VIII. Vibrations move from fl		o the fluid tymapanic canal	
IX. Membrane at oval windov Codes	v vibrates		
a) IV, VI, I, IX, VIII, II, V, VII, II	ī	b) I, II, III, IV, V, VI, VII, VI	II IY
c) IX, VIII, VII, VI, V, IV, III, II,		d) IV, VI, I, VIII, IX, II, V, V	
296. Which is the largest body of		aj 1, v 1, 1, v 111, 12, 11, v, v	11, 111
•	RBCs	c) Osteocytes	d) Sperms
297. Which one of the following			-
a) Perikaryon and dendrite	· -	b) Vacuoles and fibres	from other types of cen.
c) Flagellum and medullar		d) Nucleus and mitocho	andria
298. Identify the parts labelled as			
reflex action showing knew-j		correct option for the diag	grammane representation of
renex action showing knew-)	or it cries		



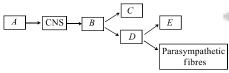
- a) A-Dorsal root ganglion, B-White matter, C-Gray matter, D-Afferent pathway, D-Efferent pathway
- b) A-Dorsal root ganglion, B-White matter, C-Gray matter, D-Efferent pathway, D-Afferent pathway
- c) A-Dorsal root ganglion, B-Gray matter, C-White matter, D-Efferent pathway, D-Afferent pathway
- d) A-Ventral root ganglion, B-White matter, C-Gray matter, D-Efferent pathway, D-Afferent pathway
- 299. The medulla contains centres which control
 - a) Respiration

b) Cardiovascular reflexes

c) Gastric secretions

- d) All of the above
- 300. Cranium is the protective covering of
 - a) Lungs
- b) Eye balls
- c) Brain
- d) Uterus

- 301. The number of cranial nerves in frog and man is
 - a) 10 and 12
- b) 12 and 10
- c) 10 and 8
- d) 8 and 10
- 302. The chemical used by doctors to dilate pupil for examination is
 - a) Pilocarpine
- b) Atropine
- c) Actinomycin-D
- d) Acetylcholine
- 303. Select the correct arrangement of fibres (A E) in the diagram given below

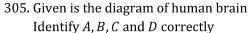


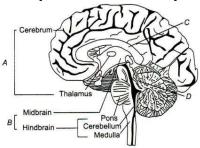
- a) A-Afferent, B-Efferent, C-Somatic motor, D-Autonomic, E-Sympathetic
- b) A-Efferent, B-Afferent, C-Somatic motor, D-Autonomic, E-Sympathetic
- c) A-Afferent, B-Efferent, C-Autonomic, D-Somatic motor, E-Sympathetic
- d) A-Efferent, B-Afferent, C-Autonomic, D-Somatic motor, E-Sympathetic
- 304. Identify the wrong pair
 - a) Corpus luteum-Progesterone
 - in-r rogesterone

b) Interstitial cells-Testosterone

c) Hypothalamus-FSH

d) Acrosome - Hyaluronidase





- a) A-Forebrain, B-Brain stem C-Corpus callosum, D-Cerebral aqueduct
- b) A-Forebrain, B-Brain stem C-Cerebral aqueduct, D-Corpus callosum
- c) A-Forebrain, B-Brain stem C-Corpus callosum, D-Cerebral aqueduct
- d) A-Forebrain, B-Brain stem C-Cerebral aqueduct, D-Corpus luteum
- 306. A synapse is formed by the membrane of
 - a) Presynaptic axon and a postsynaptic dendrite
- b) Presynaptic dendrite and postsynaptic axon
- c) Presynaptic dendrite and postsynaptic dendrite
- d) None of the above

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l. it is not conducting any impulse				
•	II. plasma membrane is electrically positive outside and negative inside			
III. the nerve fibre is stimulated mechanically or elec	ctrically			
IV. plasma membrane is negative outside and positi	ve inside			
The correct option is				
a) III and IV b) I and IV	c) II and III	d) I and II		
308. Patients suffering from cholera are given a salin	e drip because			
a) Na ⁺ ions help in stopping nerve impulses and	l hence, sensation of pain			
b) Na ⁺ ions help in the retention of water in the				
c) NaCl is an important component of energy su	•			
d) NaCl furnishes most of the fuel required for c	* * *			
309. Which part of retina consists of only cones?	ondian donviey			
a) Fovea centralis b) Optic nerve	c) Plind enot	d) Chiasmata		
· ·	c) Blind spot			
310. Following are some nerves. Categorise them as affer		ves according to their		
nature and than choose the correct option from the	codes given below			
I. Trigeminal nerves II. Occulomotor nerves				
III. Olfactory nerves				
IV. Auditory cranial nerves V. Hypoglossal cranial nerves				
VI. Spinal accessory cranial nerves VII. Optic nerves	>			
VIII. Abducens nerves				
IX. Pathetic nerves				
X. Glossopharyngeal nerves				
*** **				
XI. Vagus cranial nerves XII. Spinal nerves	TATION			
XIII. Facial nerves	27112011			
Codes				
Afferent nerves Efferent nerves Mixed nerves				
a) III, VII, IV II, IX, VIII, VI, V I, XIII, X, XI, XII				
b) I, XIII, X, XI, XII III, VII, IV II, IX, VIII, VI, V				
c) II, IX, VIII, VI, V I, XIII, X, XI, XII III, VII, IV				
d) III, VII, VIII XIII, XI, V, VI I, II, IV, IX, X, XI	I			
311. The glands, which help on absorbing odoriferou		olfactory nerve are		
a) Cerumenous glands b) Meibomian glands	c) Bowman's glands	d) Cowper's glands		
9	c) Downlan's glanus	a) cowper 3 gianus		
312. Which of the following is motor nerve?	-) m ' ' 1	וי חול.		
a) Accessory spinal b) Vagus	c) Trigeminal	d) Facial		
313. True about electrical synapses				
I. pre and postsynaptic neurons are in very close pro	-			
II. pre and postsynaptic neurons are separated by sy	maptic cieft			
III. impulse transmission is very fast				
IV. electrical synapses are common in our system				
Select the correct option) 11 1 117	1) 1 1 11		
a) I, II, III and IV b) I and III	c) II and IV	d) I and II		
314. If frog's brain is crushed, even than its leg move		as		
a) Conditional reflex c) Neurotransmitter function	b) Simple reflexd) Autonomic nerve con			

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307. A neuron is said to be in resting state when,

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315. Which of the following s		out the nodes of ranvier?	
a) Axolemma is disconti	nuous		
b) Myelin sheath is disco	ontinuous		
c) Both neurilemma and	myelin sheath are disco	ontinuous	
d) Covered by myelin sh	eath		
316. Inner part of cerebral cort	ex is referred as		
a) White matter		b) Grey matter	
c) Both (a) and (b)		d) Non-myelinated nerve	fibres
317. Brains acts as theA and	dB system.		
Here, A and B refer to			
a) Command; control		b) Voluntary; involuntary	•
c) Compound; voluntary		d) Control; involuntary	
318. Old age far sightedness i	is a defect of eye in whic	h	
a) Lens becomes opaque		b) Eyeball becomes sma	all
c) Eyeball becomes long		d) Lens loses its elastici	ty
319. Muller's fibres occurs in			
a) Heart	b) Kidney	c) Pancreas	d) Retina
320. Memory is the responsib	oility of		
a) Grey matter	b) White matter	c) Cerebrum	d) Cerebellum
321 Intercellular communica	ation in multicellular org	ganism occurs through	
a) Digestive system only		,	
b) Respiratory system of		>	
c) Nervous system only			
d) Both nervous and end	locrine system		
322. Which of the following sta	-		
I. Dendrites are long fibre,			
II. Axons are short fibres v		ody	
III. Cell body of a neuron c			lissl's granules
IV. The dendrites transmit			
The correct option is			
a) Only III	b) I and II	c) I, II and III	d) I, II and IV
323. The rods and cones of the	ne retinal layer of eye ar	e modified	
a) Hairs		b) Unipolar neurons	
c) Bipolar neurons		d) Multipolar neurons	
324. The order of the three la	vers of cells in the retin	•	de to outside is
a) Bipolar cells, photore			
b) Ganglion cells, rods, c			
c) Ganglion cells, bipolar		lle	
d) Photoreceptor cells, g			
325. Synaptic vesicles contains	•	113	
a) Synaptic fluid	b) Neurotransmitters	c) Vesicular fluid	d) All of these
326. The neurons may be	b) Neurotransmitters	c) vesiculai nuiu	u) All of these
a) Multipolar	b) Bipolar	c) Unipolar	d) All of these
327. The outermost covering	• -	ej ompoiai	a) fill of these
a) Duramater	b) Arachnoid	c) Pigamater	d) Choroid layer
328. In humans, tympanic mem		•	wy Gilor Old layel
a) Pinna	b) Auditory meatus	c) Eustachian tube	d) Cochlea
329. At their resting stage, th		-	=
- 110 and 1 coding stage, th	- Loay como eminore a po		

ation

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a) Polarization	b) Resting potential	c) Repolarization	d) Depolarization
330. Our paired eyes are locat	ed in sockets of the skull c	alled	
a) Orbits	b) Cornea	c) Iris	d) Lens
331. The decoding and inter	pretation of visual infor	mation is carried out b	y which part of the brain?
a) Cerebellum	b) Frontal lobe	c) Parietal lobe	d) Occipital lobe
332. Given below is a diagra	mmatic cross-section of	a single loop of human	ı cochlea.
A	B C D		
	ving options correctly re	epresents the name of t	hree different parts?
a) A-Tectorial membra	ne B-Perilymph		
C-Secretory cells	D-Endolymph	1	
b) A-Endolymph	B-Sensory hai	r cells	
C-Serum	D-Tectorial m	nembrane	
c) A-Sensory hair cells	B-Endolymph	l	
C-Tectorial membra	ne D-Perilymph		
d) A-Perilymph	B-Tectorial m	iembrane	
C-Endolymph	D-Organ of Co	orti	
333. For the maintenance of ic	onic gradients across the r	esting membrane, the soc	dium-potassium pump
transports	CL		
a) 3Na ⁺ outwards for 2K	⁺ into the cell	b) 2Na ⁺ outwards for 1	2K ⁺ into the cell
c) 3Na ⁺ inwards for 2K ⁺	out the cell	d) 2Na ⁺ inwards for 2	K ⁺ out the cell
334. Comprehension of spo			
a) Association area	b) Motor area	c) Wernicke's area	d) Broca's area
335. Excessive stimulation of	of vagus nerve in human	s may lead to	
a) Hoarse voice		b) Peptic ulcers	
c) Efficient digestion of	proteins	d) Irregular contract	ion of diaphragm
336. Pupil, is the aperture sur	rounded by the		
a) Ciliary body	b) Connective tissue	c) Iris	d) Choroid
337. In which direction, cris	tae of rabbit ear helps ir	n maintaining balance?	
a) Circular position of l	ongitudinal axis of semi	circular canals	
b) Transverse position	of longitudinal axis of se	emi circular canals	
c) Parallel to longitudii	nal axis of semi circular (canals	
d) All of the above			
338. The inner parts of cerebr	al hemispheres and a grou	ıp of associated deep stru	ıctures like amygdala,
hippocampus, etc. form a	complex structure called		
a) Arbor vitae		b) Limbic lobe/limbic	system
c) Corpora quadrigemina		d) Reticular system	
339. Rhodopsin is also known			
a) Red	b) Yellow	c) Brown	d) Purple
340. What are the two types	of nervous system cells	;?	

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b) Alveoli and bronchioles

d) Neurons and glia

a) Alveoli and veins

c) Neurons and nephrons

341. Which of the following statements is true?

a) Saltatory condu	ction is seen in non-myelina	ted nerve fibres	
b) Nissl's granules	are found in muscles fibres		
c) Non-myelinated	nerve fibres do not posses i	nodes of Ranvier	
d) Non-myelinated	nerve fibres are completely	enclosed by myelin she	ath
342. Nerve cells do not po	ssess		
a) Neurilemma	b) Sarcolemma	c) Dendrite	d) Axon
	ng is an example of conditione		
a) Breast feeding		b) Swallowing of food	
c) Blinding of eyes		d) Salivation in dog on s	seeing bread
, , ,	rangement of neural organizat	,	S
	tes → Vertebrates → Insects	~	→ Insects → Vertebrates
c) Vertebrates → Ins	sects → Lower vertebrates	d) Vertebrates → Lower	· invertebrates → Insects
345. 'Organ of Jacobson	'helps in		
a) Touch	b) Vision	c) Smell	d) Hear
	cise its control by sending elec		•
a) Afferent nerve im		b) Efferent nerve impul	ses
c) Electrical impulse	es	d) Nerve impulses	
347. Synapse is the conne			
a) Two axon	b) Two dendrites	c) Axon and dendrites	d) Two neurons
348. A person went to op	hthalmologist. He had a proble	em in reading because he w	as not able to
a) Contract his iris		b) Contract ciliary musc	ele
c) Contract his pupi		d) Contract his ligamen	ts
349. The size of pupil is	controlled by the		
a) Ciliary muscles	CL	b) Suspensory ligame	nts
c) Cornea	7	d) Iris muscles	
350. Which of the followi	ng is correct regarding electric	al synapses?	
	tic membrane neurons are in v		tric synapse
II. Electric current a	re involved in the transmission	of impulses	
III. Transmission of	an impulse across electrical sy	napses is very similar to im	pulse conduction along a
single axon			
IV. Impulse transmis	ssion is always faster in electri	c synapse than that across	a chemical synapse
V. Electrical synapse	es are rare in our system		
The correct option is	S		
a) I, II, III and IV	b) I, III, IV and V	c) I, II and IV	d) I, II, III, IV and V
351. Which of the follow	ving is present in rod cells a	nd useful in night vision?	?
a) Vitamin-K	b) Melanin	c) Rhodopsin	d) Vitamin-C
352 nerve fibre is e	nclosed by a Schwann cell that	do not form a myelin shea	th around the axon
a) Afferent	b) Unmyelinated	c) Myelinated	d) Efferent
0 0	of a neuron, concentration grac		
- -	on of K^+ and low concentration		
, ,	on of Na ⁺ and low concentration	on of K ⁺ inside the axon	
-	n of Na ⁺ outside the axon		
•	n of K ⁺ outside the axon		
	media and scala tympani of hu		
	ymph and perilymph respectiv	= =	
	ilymph and endolymph respect	•	
	olymph and endolymph respect	•	
, ,	olymph and endolymph respec	•	
333 An action notantia	i in tha narva tihra ic produc	ea when nocitive and ne	opariwa chargae on outeida

b) More sodium ion	ns enter the axon as compare	ed to potassium ions leav	ing it						
c) All potassium ions leave the axon									
d) All sodium ions e	enter the axon								
356. Nissl's granules are f	ound in								
a) Cell body	b) Dendrites	c) Both (a) and (b)	d) Axon						
357. Which statements a	are wrong?								
I.Synaptic cleft of n	eurons secrete adrenaline.								
II.Myelinated nerve	II. Myelinated nerve fibres are enveloped with Schwann cells, which form a myelin sheath around								
the axon.	the axon.								
III.Non-myelinated	nerve fibre is enclosed by a	Schwann cell that does n	ot form myelin sheath.						
IV.Spinal cord and	cranial nerves are made of n	on-myelinated nerve fibi	ces.						
Of the four stateme	ents,								
a) I, II are correct b	ut III and IV are incorrect								
b) I, II and III are co	orrect but IV is incorrect								
c) III and IV are cor	rect but I and II are incorrec	et							
d) II and III are cor	rect but I and IV are incorrec	et							
358. The central informat	ion processing organ of our bo	dy is							
a) Heart	b) Spinal cord	c) Brain	d) All of the above						
	ng statements are correct for co	ones of human eye?							
	ble for daylight vision								
-	sible for colour vision								
=	sible for photopic vision								
Choose the correct og a) Only I	b) I and II	c) II and III	d) I, II and III						
360. During synaptic ex		ej ii and iii	aj i, ii ana iii						
	potential of the post-synaptic	c cell hynernolarizes							
b) The epsps are all		e cen nyperpolarizes							
c) The epsps are an									
	e photosynaptic cell passes t	hrough a refractory neric	nd						
	ving is correct for the pairs o	-							
respectively?	g corrector une punte c								
a) 8 and 7	b) 16 and 7	c) 7 and 7	d) 7 and 16						
362. The nerve fibre in i		,	,						
a) More permeable		b) Semi-permeable to I	ζ+						
c) Less permeable		d) All of these							
-	ie muscle is controlled by	•							
a) Facial nerve	b) Trigeminal nerve	c) Hypoglossal nerve	d) Vagus nerve						
364. Alimentary canal is	•	- 71 0	, 0						
a) Olfactory	b) Optic	c) Trigeminal	d) Vagus						
365. The retina of noctu	•	. 0	, 0						
a) Cones only	b) Rods only	c) Both (a) and (b)	d) None of these						
·	etween arachnoid and piam	, , , , , , , , , , , , , , , , , , , ,							
a) Supra-arachnoid space b) Sub-arachnoid space									
c) Sub-dural space		d) Meninges							
367. Choose the odd pai	r out in the following.	-							
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and the inside of the axon membrane are reversed because

a) More potassium ions enter the axon as compared to sodium ions leaving it

a) Areolar connective tissue-Collagen	b) Epithelium-Keratin
c) Neuron-Melanin	d) Muscle fibre-Actin
Sympathetic nervous system controls	

368. Sympathetic nervous system controls

a) Erections of hairs b) Whitening of hairs d) All of the above c) Withdrawl of hairs 369. Dendrites are a) Branched short fibres b) Projections out of the cell body

c) Nissl's granules containing body d) All of the above

370. Sensation of stomach pain is due to

a) A-Malleus, B-stapes

a) Interoceptors b) Exteroceptors c) Proprioceptors d) Teloceptors 371. ...A... is attached to the tympanic membrane and the ...B... is attached to the oval window of the cochlea

Choose the correct option for A and B b) A-Malleus, B-incus

c) A-Stapes, B-malleus d) A-Incus, B-stapes

372. In which part of the brain, satiety centres is present?

a) Cerebellum b) Medulla oblongata d) Hypothalamus c) Cerebral hemisphere

373. Which of the following is correct for lens focusing while seeing distant object?

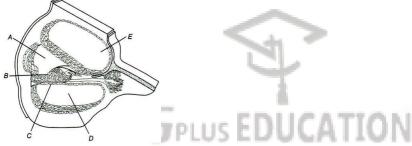
a) Tightly stretched suspensory ligament and rounded lens

b) Contracted ciliary muscles and rounded lens

c) Relaxed ciliary muscles and tightly stretched suspensory ligament

d) Contracted ciliary muscles and relaxed suspensory ligaments

374. Below is the diagram of the sectional view of cochlea of human ear. Identify A and E



Choose the correct option

a) A-Scala media, B-Organ of Corti, C-Basiliar membrane, D-Scala tympani, E-Scala vestibuli

b) A-Scala vestibuli, B-Organ of Corti, C-Basiliar membrane, D-Scala tympani, E-Scala media

c) A-Scala vestibuli, B-Basiliar membrane, C-Organ of Corti, D-Scala tympani, E-Scala media

d) A-Scala vestibuli, B-Basiliar membrane, C-Scala tympani, D-Organ of Corti, E-Scala media

375. The cell body of neuron contains certain granular bodies called

a) Cell granules b) Neuro cells c) Nissl's granules d) Neurogranules 376. Pinna

a) Collects the vibrations in the air which produce sound

b) Are wax secreting glands

c) Increase the efficiency of transmission of sound waves to the inner ear

d) All of the above

377. Light sensitive cells of eye are present in

c) Iris d) Choroid a) Retina b) Cornea

378. Which of the following statements are incorrect?

I. The space between cornea and lens is filled with watery fluid

II. Rhodopsin is red protein, hence called visual red

III. The anterior transparent portion of choroid is called cornea

IV. When all cones are stimulated equally, a sensation of no light (dark) is produced

Choose the correct option

a) Only II b) I and III c) All are correct d) All except II

379. In <i>Hydra</i> , neural organiz		> ava	D 7270
a) Network neurons	b) CNS and PNS	c) CNS	d) PNS
380. Schwann cell is found a		יין מי	D.D. I
a) Axon	b) Cyton	c) Dendrite	d) Dendron
381. The human ear is equip		-	•
a) 20 to 20,000 cycles p		b) 1000 to 2000 cycles	
c) 5000 to 7000 cycles	-	d) 5,000 to 10,000 cycle	es per second
382. I. The endocrine system p	_	-	c . 1 1
	vides an oragnised networ. on is very complex in lowei		on for a quick coordination
	stem includes CNS and PNS		
Select the correct statem			
a) Only I	b) I and II	c) I, II and IV	d) I, II and III
383. The tract of nerve fibre	•	•	., .,
a) Corpus luteum		b) Corpus callosum	
c) Corpora quadrigemi	na	d) Cerebral aqueduct	
384. Eustachian canal conne		wy derebrar aquedact	
a) Middle ear with exte		b) Middle ear with inte	rnal ear
c) External ear with int		d) Pharynx with middle	
385. Which has H-shaped gr		a) i hai yhx with imaale	car
a) Cerebrum	b) Medulla oblongata	c) Cerebellum	d) Spinal cord
386. Which part of CNS mainly		e) derebenum	u) Spiliai coru
a) Cerebellum	b) Pons	c) Spinal cord	d) Cerebral aqueduct
387. Respiratory control cer	7	ej epinareera	a) corestar aqueudet
a) Cerebellum	b) Medulla oblongata	c) Spinal cord	d) cerebrum
388. Olfactoreceptors are	,		,
a) Touch receptors	PLUS EDU	b) Pain receptors	
c) Smell receptors	OLLO LD 04	d) Pressure receptors	
389. In nerve fibre, the imp	ılses transmits quickly d	-	
a) Myelin sheath	b) Nodes of Ranvier	c) Both (a) and (b)	d) None of the above
390. Labyrinth, fluid-filled inn		-) Both (a) and (b)	-, Hone of the above
a) Bony labyrinth		b) Membranous labyrinth	1
c) Both (a) and (b)		d) Ear drum	
391. The sound producing o	rgan of bird is	•	
a) Oropharynx	b) Nasopharynx	c) Glottis	d) Syrinx
392. Reflex arc in the nervous			•
a) A functional unit cons	sting of a receptor neural p	oathway and an effector net	ıron
b) Peripheral nerves, spi	nal cords and brain		
c) A homeostatic system	of sensory nerves, synapse	s and motor nerves	
		ough a certain neural path	way
393. Salivation in man is un	der the control of		
a) Medulla oblongata	b) Mesencephalon	c) Hypothalamus	d) Cerebellum
394. Static equilibrium is m	aintained by		
a) Utriculus		b) Sacculus	
c) Both (a) and (b)		d) Semi-circular canals	
395. Human ears perform sen	sory functions. These are		
a) Hearing organs		b) Maintenance of body b	alance
c) Both (a) and (b)		d) Voice production	

- 396. When a neuron is in resting state, *i.e.*, not conducting any impulse, the axonal membrane is
 - a) Equally permeable to both Na⁺ and K⁺ ions
 - b) Impermeable to both Na⁺ and K⁺ ions
 - c) Comparatively more permeable to K⁺ ions and nearly impermeable to Na⁺ ions
 - d) Comparatively more permeable to Na⁺ ions and nearly impermeable to K⁺ ions
- 397. Different cranial nerves, with their respective functions are given below. Choose the correct option from the codes given below

Name	Function			
I. Hypoglossal	Hearing equilibrium			
II.	Movements of			
Glossopharyngeal	pharynx, larynx,			
	neck, and shoulder			
III. Pathetic	Rotation of eyeball			
IV. Oculomotor	Movement of eyeball			

Codes

ລີ	T	and	П
a	1	anu	П

b) II and IV

c) III and IV

d) I, II, III and IV

398. In humans, gustatoreceptors are found in

a) Eyes

b) Ears

c) Tongue

d) Stomach

399. 'Pons Varolii' connects the

a) Two cerebral hemispheres

b) Two lobes of cerebellum

c) Cerebrum and cerebellum

d) Spinal cord with the brain

400. There are different types of cones to human eye that responds to

a) Red and green lights

c) Red and blue lights

b) Green and blue lights

d) Red, green and blue lights

401. Cerebrospinal fluid is present

a) Beneath the piamater

c) Between arachnoid and duramater

b) Between piamater and arachnoid

d) In extra duramater

402. Unipolar neurons can be seen in the

a) Embryonic stage

b) Cerebellum

c) Cerebral cortex

d) Retina of eye

403. Which is thickened to form organ of Corti?

a) Reissner's membrane

c) Tectorial membrane

b) Basilar membrane

d) All of these

404. Which of the following cells are associated with identification of colours in bright light?

a) Rod cells

b) Cone cells

c) Both (a) and (b)

d) None of these

405. Synapses are of two types namely ... A... synapses and ... B... synapses. Here A and B refers to

a) Neuron-neuron, chemical

b) Electrical, chemical

c) Neuron-neuron, electrical

d) Electrochemical, neuron

406. Select the correct statements

- a) Neurons regulates endocrine activity but not vice-versa
- b) Endocrine glands regulates neural activity but not vice-versa
- c) Endocrine glands regulates neural activity and nervous system regulates endocrine glands
- d) Neither hormones control neural activity nor the neurons control the endocrine activity

407. Which one of the following does not act as a neurotransmitter?

a) Acetycholine

b) Epinephrine

c) Norepinephrine

d) Cortisone

408. Damage to hearing is caused by sound which exceeds

a) 70 decibels

b) 100 decibels

c) 110 decibels

d) 120 decibels

409. Choroid becomes thick in the anterior part of eye to form the

b) Ciliary body

c) Pupil

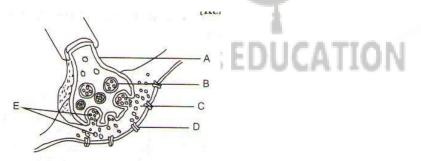
d) Lens

410. Gustatoreceptors are

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on

			Gplus Education			
a) Rod cells o	f eyes	b) Taste buds of ton	b) Taste buds of tongue			
c) Epithelium	ı of skin	d) Cone cells of eye				
	•	uffering from an abnormally lo scan would probably show a tu	•			
= =	olongata b) Pons Varolii		d) Hypothalamus			
412. Eustachian tub	e connectsA cavity with	B				
Choose the cor	rect option for A and B					
a) A-outer ear	; B-pharynx	b) A-inner ear; B-pha	rynx			
c) A-pinna; B-j	pharynx	d) A-middle ear; B-ph	d) A-middle ear; B-pharynx			
413. The autonom	ic nervous system has con	ntrol over				
a) Reflex action	on	b) Skeletal muscles				
c) Sense orga	ns	d) Internal organs	d) Internal organs			
414. How many pa	airs of cranial nerves origi	nate from the brain of rabbit?				
a) 12	b) 8	c) 9	d) 11			
415. The gelatinous	s, elastic membrane covering	the sensory hair cells of the hun	nan ear is known as			
a) Basilar men	a) Basilar membrane		b) Tectorial membrane			
c) Reissners's	c) Reissners's membrane		d) Neuro-sensory membrane			
416. The joint bety	ween axon of a neuron and	d the dendrite of the next is ca	lled			
a) Synapse	b) Bridge	c) Junction	d) Joint			
417. Reflex action is	s controlled by					
a) ANS	b) CNS	c) Both (a) and (b)	d) None of the above			
418. In the followi	ng diagram showing axon	terminal and synapse A, B, C,	D and e respectively			



- a) A-axon terminal B-synaptic cleft C-synaptic vesicles D-neurotransmitters E-receptors
- b) A-axon terminal B-synaptic cleft C-synaptic vesicles D-receptors E- neurotransmitters
- c) A-synaptic cleft B-synaptic vesicles C-axon terminal D- neurotransmitters E-receptors
- d) A-synaptic cleft B-axon terminal C-synaptic vesicles D- neurotransmitters E-receptors
- 419. Cerebellum portion of brain is
 - a) Concerned with the maintenance of posture/equilibrium
 - b) Responsible for olfactory functions
 - c) Controls optic functions
 - d) Both (a) and (c)
- 420. Choose the correct option from the codes given below
 - I. Nearly 50% of all brain cells are neuroglia

represents

						of th	ne blood brain	barrier			
	III. Microglia engulf microbes and cellular debris										
	IV. Astrocytes, oligodendrocytes and microglia, are three different types of neuroglial cells										
	Codes a) I and IV are correct only					h)	II and IV are co	arrect only	7		
	c) All are incorrect			-	All are correct	-	,				
421. The bones lie inferior to the parietal bones and						-			ıs sı	ıtures is	
a) Frontal bone b) Temporal bone					c) Occipital bone d) Parietal bone						
	-		us is a netwo	-	70110	-,	occipital boll		, -		
		Capillaries) Muscle fibr	'es	c) .	Nerves		d) I.	ymph vessels	s
		_	۔ brain is associ	•		-	1101 103		~, <u> </u>	ympii vessei.	,
1201		Limbic syste) Medulla	J		Cerebellum		d) C	erebral cortex	ζ
424.	-	-	ain is well pro			,			,		
		Skull) Meninges		c) :	Hairs		d) P	iamater	
425.	Αv	vave of action	on potential is	termed as							
	a) :	Sensory im _l	oulse b) Nerve impul	lse	c) .	Activation imp	oulse	d) M	lotor impulse	
							uced due to th		tion	ı of	
	-		eir photopign			-	Red and blue l	_			
	-		heir photopigi			d) [Red and green	lights			
		-	ell area is pre								
		Frontal lob	_) Parietal lob			Temporal lob	e e	d) ()	ccipital lobe	
			of vagus nerv	e innervatir							
	-		heart beat		>d1 °	-	Reduce the h				
			the heart bea			d) [Maintain con	stant hea	rt b	eat	
	_		Sylvius occur		- 1						
		Eye) Heart		c) [Brain		d) E	ar	
		_	e initiates wi		ment of	Δ	TION				
	a)	K ⁺	b)) Na ⁺		c)	Ca ⁺		d) M	lg ⁺	
				-	•	_	pathetic and p	oarasymp	ath	etic nervous	system
	for	four featu	res (a-d) wh	ich one featu	ıre is curre	ntl	y described?				
	F	eature	Sympathet	- 1							
			ic Nervous	pathetic							
			System	Nervous							
	a)	Salivary	Stimulate	System s Inhibits	\neg	b)	Dunil of	Dilates		Constrict	
	aj	gland	secretion	secretion		ינט	Pupil of the eye	Dilates		S	
	c)	Heart rate				d)	Intestinal	Stimulat	es	Inhibits	
	- ,	Trearerace	Beerease	S		,	peristalsis	Bumaia	.05	IIIIIIIII	
432.	Wł	nat is the loc	cation of hypot			L					
	a) .	At the base	of the cerebel	um		b) .	At the base of	the thalan	ıus		
	c) .	Above the t	halamus			d) .	Above the cere	ebellum			
433.	Wł	nich is a br	idge betweer	nervous sy:	stem and e	ndo	ocrine systen	1?			
a) Thalamus b) Hypothalamus c) Limbic system d) Parietal lobe											
434.	Br	oca's area i	s connected	with							
	a) [Learning a	nd reasoning	;		b) :	Speech functi	ion			
c) Receiving the impulses from eyes					d) Sensation of smell						
435.	435. Myelinated fibres of the tract of pons forms										
	a) .	Red matter	b]) Grey matter		c) '	White matter	(d) B	oth (b) and (c	()

436. The PNS includes

- a) Central neural system and sympathetic neural system
- b) Somatic neural system and autonomic neural system
- c) Only sympathetic neural system
- d) Only somatic neural system
- 437. 31 pairs of spinal nerves are known in man. Select the option which shows its correct classification into different groups
 - a) Cervical-1 pair, thoracic-8 pair, lumber-12 pairs, sacral-5 pairs, coccygeal-5 pairs
 - b) Cervical-8 pairs, thoracic-12 pairs, lumber-5 pairs, sacral-5 pairs, coccygeal-1 pairs
 - c) Cervical-5 pairs, thoracic-5 pairs, lumber-5 pairs, sacral-8 pairs, coccygeal-1 pairs
 - d) Cervical-5 pairs, thoracic-8 pairs, lumber-5 pairs, sacral-12 pairs, coccygeal-1 pairs
- 438. Cerebellum and medulla together constitutes
 - a) Hindbrain

b) Midbrain

c) Forebrain

d) Telencephalon

- 439. Hindbrain includes
 - a) Pons

- b) Cerebellum
- c) Medulla oblongata
- d) All of the above
- 440. The complex system of the inner ear associated with maintenance of body balance is
 - a) Cochlea

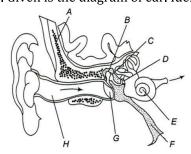
b) Reissner's membrane

c) Vestibular apparatus

- d) Basilar membrane
- 441. The one way or unidirectional transmission of nerve impulse in nerve cells is due to the presence of
 - a) Synapses
- b) Myelin sheath
- c) Membrane polarity
- d) Interneurons

- 442. Post-ganglionic nerve fibres of sympathetic system are
 - a) Adrenergic
- b) Cholinergic
- c) Both (a) and (b)
- d) None of these
- 443. The membrane, which cover the brain and spinal cord is/are called
 - a) White matter
- b) Grey matter
- c) Peritoneum
- d) Meninges

- 444. Which one of the following is not a part of ear?
 - a) Eustachian
- b) Cone cell
- c) Utriculus
- d) Sacculus
- 445. The ...A... is a structure located on the ...B... which contains ...C... that acts as auditory receptors Choose the correct option for A, B and C
 - a) A-basilar membrane, B-tectorial membrane, C-hair cells
 - b) A-basilar membrane, B-tectorial membrane, C-hair cells
 - c) A-basilar membrane, B-hair cells, C-tectorial membrane
 - d) A-organ of corti, B-basilar membrane, C-hair cells
- 446. Given is the diagram of ear. Identify *A* to *H*



Choose the correct option

- a) A-Temporal bone, B-Malleus, C-Incus, D-Stapes, E-Cochlea, F-Eustachian tube, G-Tympanic membrane, H-External auditory canal
- b) A-Tympanic membrane, B-Malleus, C-Incus, D-Stapes, E-Cochlea, F-Eustachian tube, G-Temporal bone, H-External auditory canal
- c) A-Tympanic membrane, B-Incus, C-Malleus, D-Stapes, E-Cochlea, F-Eustachian tube, G-Temporal bone,

d) A-Temporal bone, B-Malleus, C-Incus, D-Cochlea, E-Stapes, F-Eustachian tube, G-lympanic membrane, H-External auditory canal 447. The posterior part of the retina, which is just opposite to the lens is a) Cornea b) Yellow spot c) Fovea centralis d) Both (A) and (B) 448. Corpus callosum connects a) Two cerebral hemispheres b) Two ventricles of brain c) Two cerebellar hemispheres d) Two optic thalamus 449. The innermost layer of the human eye is b) Cornea d) Retina a) Choroid c) Sclera 450. Which function will be lost due to damage of occipital lobe? a) Hearing b) Speech c) Vision d) Memory 451. Neuron is composed of a) Cell body b) Dendrites d) All of these c) Axon 452. Trigeminal nerve in frog is of a) IV b) V c) VIII d) IX 453. Vomiting centre is located in the a) Medulla oblongata b) Stomach and sometimes in duodenum d) Hypothalamus c) GI tract 454. Mouth becomes watery when we look on the delicious food is due to a) Olfactory response b) Hormonal response c) Neural response d) Optic response 455. The sequence of ear ossicles from outside to inside is a) malleus \rightarrow incus \rightarrow stapes b) incus \rightarrow stapes \rightarrow malleus c) stapes \rightarrow incus \rightarrow malleus d) malleus \rightarrow stapes \rightarrow incus 456. In rhodopsin, the vitamin present is b) Vitamin-C d) Vitamin-D a) Vitamin-B c) Vitami: 457. In human eyes, colour perception is done by a) Rod cells only b) Cone cells only c) Both (a) and (b) d) Choroid layer cells 458. Path of reflex action is a) Receptor \rightarrow Brain \rightarrow Muscles b) Receptor \rightarrow Spinal cord \rightarrow Muscles c) Muscles \rightarrow Receptor \rightarrow Brain d) Muscles \rightarrow Spinal cord \rightarrow Muscles

H-External auditory canal