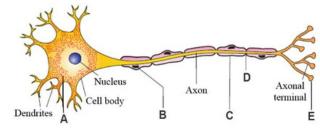
NEET ENTRANCE QUESTIONS

NEURAL CONTROL AND COORDINATION

HUMAN NEURAL SYSTEM

- 1. Following are some statements related to neuron. Select the faglsehatatuelaelynsb boodhedbidd Nriitsessl'sc ognratania flippegreampus is
 - А. т
 - B. Dendrites transmit impulses towards the cell body
 - C. Schwan cells are seen only in myelinated neuron
 - D. Myelinated nerve fibres are found in spinal and cranial nerves
- Label A, B, C, D and E in the following figure.



- A= Nissl"s granules, B= Schwan cell, C= Myelin
- sheath, D= Node of Ranvier, E= Synaptic knob B. A= Nissls granules, B= Myelin sheath, C= Schwan

cell, D= Node of Ranvier, E= Synaptic knob

- C. A= Nissl"s granules, B= Schwan cell, C= Myelin sheath, D= Synaptic knob, E= Node of Ranvier
- D. A= Nissls granules, B= Myelin sheath, C= Schwan
- cell, D= Synaptic knob, E= Node of Ranvier 3. Gaps between two adjacent myelin sheaths is called
- A. Synaptic knob
- B. Synaptic cleft
- C. Nodes of Ranvier
- D. Axon terminal
- 4. Consider the following statements regarding unipolar neuron
 - a. It is found in embryo
 - b. It has only one axon and one dendron
 - c. A long axon is projected from cyton
 - aÆ c are correct
- B. a & b are correct

dura mater

- - A. B.
- cbahrcmnahnaonetido →ir
- C.
- →D roam ho s n
- D. P Cerebrum controls

Sneezing, coughing, speech, vision

Bision, speech, intelligence, hearing, taste

- C. Intelligence, memory, body balance, coughing
- D. Memory, thinking, body balance, sneezing
- 7. The decoding and interpretation of visual information is carried out by which part of the cerebrum?
 - A. Frontal lobe
- B. Parietal lobe
- C. Temporal lobe
- D. Occipital lobe
- 8. The inner parts of cerebral hemispheres and a group of associated deep structures liken.a Wemsteurndteiala cke, si parpeoacadingision of the brain.
 - hypothalamus, etc. together co
 - A. Limbic system

- C. Corpora quadrigemina D. Brain stem
- A. Name of a fish
- B. A part of brain
- C. Name of a mammal
- D. Both A & B
- 10. A man is admitted to a hospital. He is suffering from an abnormally low body temperature, loss of appetite and extreme thirst. His brain scan would probably show a tumor in
 - A. Medulla oblongata
- B. Pons
 - C. Cerebellum
- D. Hypothalamus
- E. Pituitary
- 11. Thalamus is also known as
 - A. Relay station
- B. Gate keeper D. Master gland
- C. Biological clock
- E. Both A & B 12. Electric potential of brain is recorded by
 - A. CT scan
- B. Sphygmomanometer

ceCr.nelGlzEytelEhe (s'Itiatgtelerm'delemretechn ldEo CwsGe rl eecgta 13. A

statements.

- a. It is the largest part of hindbrain
- b. It has 2 hemispheres
- c. It is the centre of short-term memory
- d. It has outer gray matter and inner white matter
- e. It synchronizes the activity of voluntary muscles
- A. a, b, d, & e are correct B. Only e is correct
- B. d & e are correct
 - D. c & d are correct
- 14. The tract of nerve fibres which connects the cerebral
 - hemispheres is
 - A. Corpus luteum
- B. Corpus callosum
- C. Corpora quadrigemina D. Cerebral aqueduct
- 15. The mixed nerves of cranial origin are
 - A. 1,2,8
- B. 5,7,9,10
- b^C. A Danktagen maan to a cittude strocker measure obsumed a autoisa exects 6.3 divides $12 \rightarrow cm$ opperioi in Alla and mixed nerves $12 \rightarrow cm$ opperioi in Alla and mixed nerves $12 \rightarrow cm$ opperioi in Alla and mixed nerves $12 \rightarrow cm$ opperioi in Alla and mixed nerves $12 \rightarrow cm$ opperioi in Alla and mixed nerves $12 \rightarrow cm$ opperioi in Alla and mixed nerves $12 \rightarrow cm$ opperioi in Alla and mixed nerves $12 \rightarrow cm$ opperioi in Alla and mixed nerves $12 \rightarrow cm$ opperioi in Alla and mixed nerves $12 \rightarrow cm$ opperioi in Alla and mixed nerves $12 \rightarrow cm$ opperioi in Alla and mixed nerves $12 \rightarrow cm$ opperioi in Alla and mixed nerves $12 \rightarrow cm$ opperioi in Alla and mixed nerves $12 \rightarrow cm$ opperior
 - - A. Are the part of ANS
 - B. Prepare body to cope with emergencies & stresses
 - C. Are antagonistic in action
 - D. Dilate arteries and lower BP
 - 17. A person entering an empty room suddenly finds a snake right in front on opening the door. Which one of the following is likely to happen in his neuro-hormonal control system?
 - A. Sympathetic nervous system is activated releasing epinephrine & norepinephrine from adrenal medulla.
 - B. Neurotransmitters diffuse rapidly across the cleft and transmit a nerve impulse.
 - C. Hypothalamus activates the parasympathetic
 - - D. Sympathetic nervous system is activated releasing adrenaline & noradrenaline from adrenal cortex.

NERVE IMPULSES & REFLEX ACTION

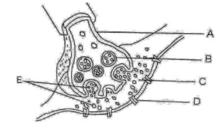
- 18. Given below are the statements regarding resting neuron
 - a. The resting m embrane potential is +30 mV
 - b. In resting membrane, outside is +vely charged and inside isvely charged
 - c. Resting membrane has only a poor permeability for Na+ and has a higher permeability for K+
 - d. The ionic gradients are due to sodium-potassium pump which transports 2 Na+ outwards for 3 K+ into the cell
 - A. a & c are correct
- B. a & b are correct
- C. b & c are correct
- D. a & d are correct
- 19. During the propagation of a nerve impulse, the action potential results from the movement of
 - A. K+ ions from extracellular fluid to intracellular fluid
 - B. Na+ ions from intracellular fluid to extracellular fluid
 - C. K+ ions from intracellular fluid to extracellular fluid
 - D. Na+ ions from extracellular fluid to intracellular fluid
- 20. Which statement is incorrect about synaptic

transmission?

- A. Impulse transmission in electrical synapse is faster than in chemical synapse
- B. Electrical synapses are very rare in human system C. When the impulse reaches the presynaptic region,

synaptic vesicles break and release neurotransmitters

- D. Based o naurntmansmitter Aelectrical csynapses are 2 types
- 21. In the following diagram showing axon terminal and synapse A, B, C, D and E respectively represents



- A.A. A. a. a. con tennina hall Burestynpticaclet, C -f synaptic vesicles, D ra-nsmitters, E recept -ors
- B. cleft, D -n receptor E synaptic vesicles, Esynaptic

neurotransmitters C.

> t – synaptic vesicles C axon sicles, D - - neurotansmitters, E - receptors

- D. A synapticcelettorB, Eassortermin al, C t naptic ran mitters. E recepors
- E. axon terminal, C synaptic

neurotransmitters

- 22. Receptor sites for neurotransmitters are present on
 - A. Pre-synaptic membrane
 - B. Tips of axons
 - C. Post-synaptic membrane
 - D. Membranes of synaptic vesicles
- 23. Unidirectional transmission of a nerve impulse through nerve fibres is due to a 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 the dendrites and not by axon endings.
 - D. Neurotransmitters are released by the axon endings and not by dendrites.
- 24. Route of reflex arc is
 - A. Receptors, effectors, grey matter and motor fibres
 - B. Sensory fibres, grey matter, motor fibres, receptors and effectors
 - C. Receptors, sensory fibres, grey matter, motor fibres and effectors
 - D. Effectors, grey matter, motor, sensory fibres and receptors
- 25. Knee jerk phenomenon and milk sucking of a nursing baby are examples for
 - A. Reflex action
 - B. Rapid and involuntary action
 - C. Unconditioned, involuntary & unconscious action
 - D. The entire above

SENSE ORGANS

- 26. Transparent part of sclera is called
 - A. Conjunctiva
- B. Cornea
- C. Pupil

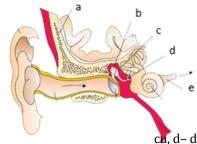
C. Pupil

D. Iris

A.

- E. Choroid
- 27. The focal length of eye lens is controlled by
 - A. Iris muscle D. Cornea
- B. Ciliary body
- E. All of the above 28. Which is not correct about macula lutea?
 - A. Its central pit is known as fovea centralis
 - B. It is a transducer of RGB light
 - C. It is also known as yellow spot
 - D. Cones and rods are absent
 - E. It is the area of keenest vision
- 29. Arrangean gthunglis in diclepolsla irn c reeltlsin →a opfh houtomreache epyepeinitiel bennesb-- maileus- incus, e cochlea insid t
 - B. cochlear nerve

- B. BGPhiapotglolairore ncceeclpelstllo \rightarrow sr \rightarrow cpe hpllohsto o-
- C.
- D.
- 30. Label a, b, c, d and e in the given figure.



cu, d- d- stapes,

stape c in

malleus, e-

C. Utriculus 6. a frontale bronor; ab biomer, so e-manhaelle cos, ideus, d-stapes, D. Semicircular canal E. All of these 34. Select the part having double role? e cochlear nerve stapes, e-A. Hypothalamus B. Pancreas 31. Select the tearrect sequence showing the steps of C. Raersishnee rfo'sl lmoweminbgr gammure,n Tabbe eriseadropher kwhit 35. Which ft mechanism of hearing A. Pinna-roadhdea tymstamicsmeincus -bra audititormerve A. membrane B. Pinna tympanic membrane – auditory canal B. Malleus, Incus, stapes C. Cones, rods, yellow spot incus -- ad leadist of a pean alco this paraim bito by an evee D. Semi-circular canal, semi-lunar valve, seminal -u incus - sta p-es - cochleaau dittoito ra narve vesicle malleus D. Pinna – malleus – incus – stapes E. Dendron, axon, cyton 36. Select the chemoreceptor organs tympanic membrane cochlea - auditory nerve 32. The **Reg**isn ilsa**nomfiis**n'**se**at rmabnrea need on B. Tectorial membrahe Nose & tongue B. Ear & skin C. Eye & ear D. Skin & nose A. Bas r C. 37. Which of the following is known as Gustatoreceptors? D. Tympanic membrane 33. Which is concerned with equilibrium? A. Ear B. Nose A. Cerebellum C. Tongue D. Skin B. Cristae