

## Question 1

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Flag question

What is the character of deep pain?

- a. Associated with pressor effects as increased heart rate.
- b. Colicky pain
- c. Associated with flexor withdrawal reflex.
- d. Transmitted by B nerve fibers.
- e. Diffuse and poorly localized.

[Clear my choice](#)

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## Question 2

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Spina bifida occulta occurs at which level

- a. T11 or T12
- b. L5 or S1
- c. L1 or L2
- d. S1 or S2
- e. L3 or L4

[Clear my choice](#)[PREVIOUS PAGE](#)[NEXT PAGE](#)

## Question 3

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According to Weber-Fechner's law, the rate of impulse discharge from a receptor is:

- a. Proportional to the square of the stimulus intensity
- b. Proportional to the intensity of the stimulus
- c. Directly proportional to the logarithm of the stimulus intensity
- d. Inversely proportional to the stimulus intensity
- e. Independent of stimulus intensity

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## Question 4

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What is the character of visceral pain?

- a. Pricking in nature
- b. Throbbing in nature
- c. Well localized
- d. Associated with depressor effects as decreased heart rate.
- e. Usually felt in the diseased viscus.

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## Question 5

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What happens in mechanoreceptors when they are stimulated?

- a. They decrease membrane permeability to ions
- b. They inhibit nearby neurons
- c. They generate receptor potentials through Na<sup>+</sup> influx
- d. They undergo hyperpolarization
- e. They release neurotransmitters into the bloodstream

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## Question 6

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The portion of a nerve cell which contains the nucleus and most of the metabolic machinery is called the:

- a. dendrite
- b. synapse
- c. axon
- d. cell body
- e. Nissl body

[Clear my choice](#)[PREVIOUS PAGE](#)[NEXT PAGE](#)

## Question 7

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Flag question

Which of the following cells is not one of the glial cells?

- a. Schwann cells
- b. Ependymal cells
- c. Spongioblasts
- d. Fibroblasts
- e. Astrocytes

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## Question 8

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T10 segment of spinal cord lies opposite which spine

- a. T5
- b. T10
- c. T7
- d. T8
- e. T12

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## Question 9

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Which of the following is related to the ventral surface of midbrain?

- a. Middle cerebellar peduncle located on the ventral surface of midbrain
- b. Facial colliculus located on the ventral surface of midbrain
- c. Pyramid and olive located on the ventral surface of midbrain
- d. Gracile and cuneate tubercles located on the ventral surface of midbrain
- e. Cerebral peduncle located on the ventral surface of midbrain

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## Question 11

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Which age group is primarily affected by bacterial meningitis caused by Escherichia. coli?

- a. Teens
- b. Infants
- c. young children
- d. young adults
- e. Neonates

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## Question 12

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What is the most important virulence factor of *Neisseria meningitidis*?

- a. Lipooligosaccharide
- b. Endotoxin
- c. Polysaccharide capsule
- d. Pili and outer membrane proteins
- e. IgA proteases

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## Question 13

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Which of the following receptors is a rapidly adapting receptor?

- a. Muscle spindles
- b. Golgi tendon organs
- c. Cold receptors
- d. Hair follicle receptors
- e. Pain receptors

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## Question 15

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Which of the following is related to the dorsal surface of open part of medulla oblongata?

- a. Inferior cerebellar peduncle located on the dorsal surface of open part of medulla
- b. Crus cerebri located on the dorsal surface of open part of medulla
- c. vagal and hypoglossal trigones located on the dorsal surface of open part of medulla
- d. Facial colliculus located on the dorsal surface of open part of medulla
- e. Gracile and cuneate tubercles located on the dorsal surface of open part of medulla

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## Question 16

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Adaptation of receptors is characterized by which of the following?

- a. Rate of discharge from tonic receptors decreases rapidly to zero in spite of continuous constant stimulation.
- b. It means increased rate of discharge from receptors in spite of continuous constant stimulation.
- c. Pacinian and Meissner corpuscles are rapidly adapting receptors.
- d. Phasic receptors continue to discharge as long as stimulus is applied.
- e. Pain and cold receptors are rapidly adapting receptors.

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**Question 1**

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 Flag question

Which of the following CNS infective organisms is characterized by the presence of Negri bodies in the hippocampus and cerebellum?

- a. AIDS
- b. Strep. H.
- c. Rababies
- d. Herpes simplex virus (HSV) type 1
- e. Prion

[Clear my choice](#)

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Question 2

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What is the receptor involved in the stretch reflex?

- a. Golgi tendon organ
- b. Joint capsule receptors
- c. Pacinian corpuscles
- d. Free nerve endings
- e. Muscle spindle

[Clear my choice](#)

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**Question 3**

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Archicerebellum consists of

- a. Anterior lobe of the cerebellum
- b. Lateral zone of the cerebellar hemisphere
- c. Paravermal zone cerebellar hemisphere
- d. Flocculonodular lobe
- e. Vermal zone cerebellar hemisphere

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Question 4

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If a newborn infant manifested with absence of most of the brain and calvarium. This malformation should be described as:

- a. Anencephaly
- b. Microencephaly
- c. Encephalocele
- d. Hydrocephaly
- e. Polymicrogyria

[Clear my choice](#)

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Question 5

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 Flag question

Which type of interneuron circuit plays a major role in wakefulness?

- a. Inhibitory circuit
- b. Divergence circuit
- c. Reverberating circuit
- d. Convergence circuit
- e. Monosynaptic circuit

[Clear my choice](#)

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Question 6

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Which of the following is related to the thalamus?

- a. Lateral surface is related to the interventricular foramen.
- b. Anterior end is related to the posterior limb of the internal capsule
- c. Medial surface: is related to the third ventricle.
- d. Inferior surface is related to the tela choroidea, fornix and lateral ventricle
- e. Superior surface is related to the hypothalamus and the subthalamus.

[Clear my choice](#)

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Question 7

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 Flag question

What happens when the alpha ( $\alpha$ ) motor neurons are activated in the stretch reflex?

- a. Golgi tendon organ is activated
- b. The muscle contracts
- c. The muscle relaxes
- d. The muscle spindle stops firing
- e. The antagonist muscle contracts

[Clear my choice](#)

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**Question 8**

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The hypnotic of selective melatonin agonist activity is:

- a. Rameteon
- b. Nalbuphine
- c. Zaleplon
- d. Buspiron
- e. Midazolam,

[Clear my choice](#)

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Question 9

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 Flag question

The benzodiazepine of choice for endoscopy is:

- a. Midazolam
- b. Lorazepam,
- c. Oxazepam,
- d. Zaleplon
- e. Alprazolam

[Clear my choice](#)

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**Question 10**

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 Flag question

In the pain control system, enkephalin is released from a group of neurons called:

- a. NRPC
- b. DRG
- c. PIC
- d. RM
- e. LC

[Clear my choice](#)

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Question 11

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 Flag question

Which of the following circuits is responsible for prolonged discharge of a reflex even after stimulation stops?

- a. Lateral inhibition circuit
- b. Divergence circuit
- c. Convergence circuit
- d. After-discharge circuit
- e. Monosynaptic circuit

[Clear my choice](#)

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**Question 12**

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 Flag question

Which of the following is related to the boundaries of diencephalon?

- a. Inferiorly: body of the fornix and lateral ventricle.
- b. Posteriorly: lamina terminalis and anterior commissure.
- c. Superiorly: optic chiasma, tuber cinereum and mamillary bodies
- d. Anteriorly: posterior commissure, pineal gland and habenular trigone.
- e. Laterally: posterior limb of the internal capsule.

[Clear my choice](#)

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**Question 13**

Answer saved

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1.00

 Flag question

In the pain control system, serotonin is released from a group of neurons called :

- a. PIC
- b. NRPC
- c. LC
- d. RM
- e. DRG

[Clear my choice](#)

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Question 14

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 Flag question

In chemical synapses, which ion is essential for neurotransmitter release?

- a. Magnesium
- b. Calcium
- c. Potassium
- d. Sodium
- e. Chloride

[Clear my choice](#)

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## Question 15

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Which of the following statements regarding viral meningitis is true?

- a. Viral meningitis is typically associated with a higher mortality rate compared to bacterial meningitis.
- b. It is always a self-limiting illness with no long-term complications.
- c. Viral meningitis is exclusively caused by DNA viruses.
- d. Treatment for viral meningitis often includes the use of antibiotics.
- e. The diagnosis of viral meningitis requires the presence of neutrophils in the CSF.

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Question 17

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 Flag question

Which fissure divides the cerebellum into superior and inferior surfaces

- a. Primary
- b. Horizontal
- c. Uvulo-nodular fissure
- d. Posterolateral fissure
- e. Secondary

[Clear my choice](#)

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**Question 19**

Answer saved

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A 43-year-old man went to his physician complaining of difficulty in maintaining an erection during intercourse. He was recently diagnosed with major depressive disorder and started a drug treatment 2 weeks ago. Which of the following drugs most likely caused the symptom reported by the patient?

- a. Amitriptyline (a TCA)
- b. Chlorpromazine
- c. Bupropion (atypical antidepressant)
- d. Fluoxetine (a SSRI)
- e. Mirtazapine (atypical antidepressant)

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## Question 20

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A 36-year-old woman presented at the outpatient psychiatric clinic complaining of depressed mood for the past 5 weeks. On interview she reported an intense fear of being in closed spaces, and described two panic attacks in the past, treated with fluoxetine and venlafaxine, but with minimal results. A diagnosis of depression was made, and a drug that acts by inactivating enzymes involved in neurotransmitter metabolism was prescribed. Which of the following drugs was most likely prescribed

- a. Phenzelzine
- b. Amitriptyline
- c. Entacapone
- d. Citalopram
- e. Fluoxetine

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## Question 21

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A 28-year-old pregnant woman has a previous history of delivering a baby with a neural tube defect. Which one the following substances should be prescribed for this woman early in the next pregnancy to prevent the recurrence of this condition?

- a. Ascorbic acid
- b. Folic acid
- c. Vitamin B12
- d. Thiamine
- e. Vitamin A

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Question **22**

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 Flag question

What is the main structural component of electrical synapses?

- a. Voltage-gated sodium channels
- b. Neurotransmitter vesicles
- c. Receptor proteins
- d. Synaptic cleft
- e. Connexons

[Clear my choice](#)

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## Question 1

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Sublenticular part of the posterior limb of internal capsule is supplied by which artery?

- a. Anterior cerebral
- b. External carotid
- c. Middle cerebral
- d. Posterior cerebral
- e. Internal carotid

[Clear my choice](#)

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## Question 2

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The vestibulospinal tract is primarily involved in:

- a. Postural control and equilibrium
- b. Fine skilled hand movements
- c. Voluntary speech production
- d. Automatic control of breathing
- e. Eye coordination during voluntary movement

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## Question 3

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The semicircular canals detect which of the following?

- a. Linear acceleration
- b. Blood pressure changes
- c. Angular acceleration
- d. Sound waves
- e. Static head position

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## Question 4

Answer saved

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What is the most common site of upper motor neuron lesion (UMNL) ?

- a. Brain stem
- b. Internal capsule
- c. Basal ganglia
- d. Cerebellum
- e. Spinal cord

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## Question 5

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The function of the primary motor cortex (area 4) includes:

- a. Controlling automatic postural movements
- b. Processing sensory input from the thalamus
- c. Initiation of voluntary fine skilled movements
- d. Regulation of muscle tone
- e. Coordination of gross involuntary movements

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## Question 8

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The most common route of spread for CNS infections is ...

- a. Lymphatic spread.
- b. Local spread.
- c. Direct spread.
- d. Nerve spread.
- e. Blood spread.

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## Question 9

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What is the function of the pyramidal tract in relation to muscle tone?

- a. Increases muscle tone
- b. Maintains posture
- c. Decreases muscle tone
- d. Increases tone and reflexes
- e. Regulates balance

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## Question 10

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A positive Babinski sign is indicative of which of the following?

- a. Muscle dystrophy
- b. Cerebellar lesion
- c. Peripheral nerve injury
- d. Lower motor neuron lesion
- e. Upper motor neuron lesion

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## Question 11

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Western equine encephalitis virus is the causative agent of which of the following?

- a. Secondary encephalitis.
- b. Dermatitis.
- c. Syphilis.
- d. Pneumonia.
- e. Primary encephalitis.

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## Question 12

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Which of the following forms the floor of inferior horn of the lateral ventricle?

- a. Tapetum of the corpus callosum
- b. Thalamostriate vein.
- c. Stria terminalis
- d. Fimbria
- e. Tail of the caudate nucleus and amygdaloid nucleus.

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## Question 13

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Head of caudate nucleus is related to which part of lateral ventricle

- a. floor of the posterior horn
- b. lateral wall of the anterior horn
- c. floor of the body
- d. roof of the posterior horn
- e. roof of the inferior horn

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## Question 14

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Which layer of the cerebral cortex contains small pyramidal cells?

- a. Inner granular layer
- b. Outer pyramidal layer
- c. Molecular layer
- d. Multiform layer
- e. Outer granular layer

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## Question 15

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How many semicircular canals does each vestibular apparatus have?

- a. 4
- b. 5
- c. 3
- d. 6
- e. 2

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## Question 16

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Anterior Commissure connects the

- a. Two temporal lobes
- b. Two frontal lobes
- c. Two occipital lobes
- d. Distant cortical area in the same hemisphere
- e. Cerebral cortex with the subcortical areas

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## Question 17

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Which of the following sites is common for secretion of cerebrospinal fluid?

- a. Choroid plexus is the main source of CSF (70%), mostly in the fourth ventricle
- b. Ependymal lining of the ventricles
- c. Choroid plexus is the main source of CSF (70%), mostly in the lateral ventricle.
- d. Cells of the pia mater
- e. Choroid plexus is the main source of CSF (70%), mostly in the third ventricle

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## Question 18

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Which fibers connect a distant cortical area in the same hemisphere

- a. Long association
- b. Forceps minor
- c. Commissural
- d. Projection
- e. Short association

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## Question 19

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Which of the following is the genome of rabies virus?

- a. (+) sense ss RNA associated with nucleoprotein
- b. (-) sense ss RNA associated with nucleoprotein
- c. (+) sense ds RNA associated with nucleoprotein
- d. (-) sense ds RNA associated with nucleoprotein
- e. (+) sense ds segmented RNA associated with nucleoprotein

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## Question 20

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Which of the following CNS infective organisms is characterized by the presence of Negri bodies in the cytoplasm of the cells of the brain?

- a. Rabies.
- b. Herpes simplex virus (HSV) type 1.
- c. AIDS.
- d. Strep. H.
- e. Prion.

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