

Written Q

1. Enumerate functions of premotor area ?
2. Enumerate effects of lesion in premotor area ?
3. Enumerate lateral motor systems ?
4. Effects of lesion in extra pyramidal tract ?

Formative MCQ

<p>1. Motor area 4 of cerebral cortex:</p> <ul style="list-style-type: none">a) inhibits stretch reflex.b) controls fine skilled movements.c) is less excitable than area 6.d) is located in post central gyrus.e) supplies mainly the same side of the body.	B
<p>2. Which one of the following extrapyramidal tracts control fine skilled movements:</p> <ul style="list-style-type: none">a) Reticulospinal tract.b) Rubrospinal tract.c) Olivospinal tract.d) Vestibulospinal tract.e) Tectospinal tract.	B
<p>3. Increased neural activity before skilled voluntary movement is a first seen in:</p> <ul style="list-style-type: none">a) Spinal motor neuronsb) Precentral motor neuronsc) Cortical association areasd) Midbraine) Cerebellum	C

<p>4. Primary motor area:</p> <ul style="list-style-type: none"> a) Occupies most of parital lobe b) Control mainly ipsilateral ms c) Occupies the post central gyruas d) Inhibitory to ms spindle e) Connected with anterior horn cells by pyramidal tract 	E
<p>5. Fine motor movement of index finger can be elicited by stimulation of:</p> <ul style="list-style-type: none"> a) Primary motor cortex. b) Lateral cerebellar hemisphere. c) Premotor cortex. d) Supplemental motor area. e) Red nucleus. 	A
<p>6. The fibers of corticospinal tract pass through which structure?</p> <ul style="list-style-type: none"> a) Medial lemniscus. b) Medullary pyramid. c) Posterior funiculus. d) Medial longitudinal bundle. e) Anterior roots. 	B
<p>7. Motor area 4:</p> <ul style="list-style-type: none"> a) Inhibits stretch reflex. b) Controls fine killed Movements. c) Is less excitable than area 6. d) Is located in the post central gyrus. e) Supplies Mainly the same side of the body. 	B

Other MCQ

<p>1. Corticospinal tract:</p> <ul style="list-style-type: none">a) Originates only from primary motor area.b) Terminate mainly in the anterior horn cells of the opposite side.c) Is inhibitory to stretch reflex.d) Passes through the anterior limb of internal capsule.e) None of the above.	B
<p>2. Which of the following is true concerning the extrapyramidal tracts:</p> <ul style="list-style-type: none">a) They pass through the pyramid in the medulla.b) They are one way pathways.c) They control mainly gross postural movements.d) They originate mainly from area 4.e) They terminate only on the opposite side.	C
<p>3. Which of the following structures serves as an "alternative pathway" for signals from the motor cortex to the spinal cord?</p> <ul style="list-style-type: none">a) Red nucleus.b) Basilar pontine nuclei.c) Caudate nucleus.d) Thalamus.e) Dorsal column nuclei.	A
<p>4. The primary motor area:</p> <ul style="list-style-type: none">a) Occupies most of the parietal lobe.b) Controls mainly ipsilateral muscles.c) Occupies the post central gyrus.d) Is inhibitory to muscle spindle.e) Is connected with anterior horn cells by the by the pyramidal tract.	E

<p>5. Which of the following body parts is represented most laterally and inferiorly within the primary motor cortex?</p> <p>a) Face. b) Hand. c) Neck. d) Abdomen. E) Lower limb.</p>	A
<p>6. Pyramidal tract:</p> <p>a) Controls gross postural movement. b) Terminate on AHC mainly on same side. c) Inhibits muscle tone. d) Is one way pathway. e) Inhibit tendon jerk.</p>	D
<p>7. All of the following are descending motor tracts, except:</p> <p>a) Rubrospinal tract b) Spinotectal tract c) Reticulospinal tract d) Corticobulbar tract</p>	B
<p>8. Corticospinal tract originates from all the following areas, except:</p> <p>a) premotor area in the frontal lobe b) prefrontal area in the frontal lobe c) supplemental motor area in the frontal lobe d) somatic sensory area in the parietal lobe</p>	B
<p>9. The cranial motor nuclei which receive innervation only from the contralateral corticobulbar tract are:</p> <p>a) nuclei of the trigeminal and vagus nerves b) nuclei of the vagus and glossopharyngeal nerves c) nuclei of the facial and hypoglossal nerves d) nuclei of the facial and glossopharyngeal nerves</p>	C

<p>10. Axons of the lateral corticospinal tract synapse mainly with:</p> <ul style="list-style-type: none"> a) lateral motor neurons b) medial motorneurons c) intermedio-lateral neurons d) interneurons 	A
<p>11. The lateral motor system includes:</p> <ul style="list-style-type: none"> a) the lateral Reticulospinal tract b) the lateral corticospinal tract c) the lateral vestibulospinal tract d) all the above tracts 	B
<p>12. The Rubro-spinal tract:</p> <ul style="list-style-type: none"> a) originates from the pontine reticular formation b) descends contralaterally c) controls activity of axial muscles d) is a component of the medial motor system 	B
<p>13. The reticulo-spinal tracts:</p> <ul style="list-style-type: none"> a) are inhibitory to muscle tone b) are excitatory to muscle tone c) are either excitatory or inhibitory to muscle tone d) have effect on muscle tone 	C
<p>14. Vestibulo-spinal tract:</p> <ul style="list-style-type: none"> a) adjust the discharge of Vestibular receptors b) adjust muscle tone c) antagonize the effects of rubrospinal tract d) terminate on the lateral motor neurons in the spinal cord 	B

<p>15. Tectospinal tract:</p> <ul style="list-style-type: none"> a) originate mainly from the inferior colliculus b) originate mainly from the medial geniculate body c) mediate responses initiated by sudden changes of head position d) terminate in the cervical segments of the cord 	D
<p>16. Representation of the body in the primary motor area:</p> <ul style="list-style-type: none"> a) is ipsilateral b) is upright c) is disproportionate to the actual anatomical size of the represented region d) all the above are correct 	C
<p>17. The extra-pyramidal pathways to skeletal muscle:</p> <ul style="list-style-type: none"> a) Are important for posture and fixation. b) Are required for discrete movements of the hands c) Are interrupted when the pyramids are cut. d) Have no connection with reticular formation. e) All of the above. 	A
<p>18. Which of the following body parts is represented most laterally and inferiorly within the primary motor cortex?</p> <ul style="list-style-type: none"> a) Face b) Hand c) Neck d) Abdomen e) Lower limb 	A

<p>19. Corticospinal tract:</p> <ul style="list-style-type: none"> a) originates only from primary motor area. b) terminate mainly on the anterior horn cells of the opposite side. c) is inhibitory to stretch reflex. d) passes through the anterior limb of internal capsule. e) none of the above. 	B
<p>20. Which of the following is true concerning the extrapyramidal tracts:</p> <ul style="list-style-type: none"> a) they pass through the pyramid in the medulla. b) they are one-way pathways. c) they control mainly gross postural movements. d) they originate mainly from area 4. e) they terminate only on the opposite side. 	C