Online Examinations (Even Sem/Part-I/Part-II Examinations 2020 - 2021

Course Name - Applied Human Physiology
Course Code - BPT202

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Answer all the questions. Each question carry one mark.

9. 1. Basic functional unit in the nervous system

Mark only one oval.

- [ ] Neurons
- [ ] Reflex arch
- [ ] Receptors
- [ ] Nuclei

10. 2. Which is not correct With related to nerve fibers ?

Mark only one oval.

- Myelinated fibers have diameter more than unmyelinated fibers
- Myelinated fibers conduct signals more rapid than unmyelinated fibers
- Pricking (fast) pain usually conducted by type A nerve fibers while aching pain (slow pain) conducted by type C nerve fibers
- Cold and warmth usually conducted by myelinated fibers

11. 3. All of the following are characteristics of EPSP except :

Mark only one oval.

- Na+ influx
- K+ efflux
- Increase the internal metabolism of neuron
- Activates excitatory enzymes

12. 4. Which of the following is non-inhibitory neurotransmitter ?

Mark only one oval.

- GABA
- Glycine
- Serotonin
- Glutamate

13. 5. Which of the following is inhibitory neurotransmitter found in spinal cord ?

Mark only one oval.

- Serotonin & glycin
- Dopamine
- Glutamate
- Ach

14. 6. Rheobase (R) refers to

Mark only one oval.

- minimum intensity of stimulus which if applied for adequate time
- minimum duration of time for which the stimulus is applied
- Duration of time applied for action potential
- The applied intensity of impulse

15. 7. Relative refractory period refers to

Mark only one oval.

- a short period following action potential during which second stimulus, no matter how strong it may be, cannot evoke any response
- a short period following action potential during which second stimulus, no matter how strong it may be, can evoke response
- a short period during which the nerve fibre shows response, if the strength of stimulus is more than normal.
- a short period during which the nerve fibre shows response, if the strength of stimulus is less than normal.

16. 8. ____ Neurotransmitter is found in area of brain responsible for long-term behavior and memory

Mark only one oval.

- Ach
- CO
- NO
- Glycine

17. 9. Lesion confined to posterior column – medial lemniscus system can cause all the following except

Mark only one oval.

- Sensory ataxia
- Loss of pain and temperature sensation
- Loss of vibration
- Loss of fine touch sensation on ipsilateral side

18. 10. Which is true about Cerebrospinal fluid

Mark only one oval.

- Is formed in the arachnoid granulations.
- Provides the brain with most of its nutrition.
- Protects the brain from injury when the head is moved.
- Has a lower pressure than that in the cerebral venous sinuses.

19. 11. All the following cause excitation of the muscle spindle except .

Mark only one oval.

- Contraction of the end-portion of the intrafusal fibers
- Shortening of the mid-portion of the intrafusal fibers
- Lengthening of the muscle
- Increase the activity of gamma-motor neuron

20. 12. Which of the following is not the function of Neurotrophin is

Mark only one oval.

- Facilitate initial growth and development of nerve cells in central and peripheral nervous system
- Promote survival and repair of the nerve cells
- Play an important role in the maintenance of nervous tissue and neural transmission.
- Synthesis of Neurotransmitters

21. 13. Which of the following nerve fibre is slowest according to the conductive velocity?

Mark only one oval.

- A alpha
- A Gamma
- B
- C

22. 14. Wallerian degeneration is

Mark only one oval.

- due to first degree of nerve injury
- due to axonotmesis
- due to neurotmesis
- due to complete transaction of nerve fibre

23. 15. Which of the following compound function as Neurotransmitter

Mark only one oval.

- NO2
- CO2
- NO
- O2

24. 16. Flexor Reflex is

Mark only one oval.

- Withdrawal reflex
- Conditioned Reflex
- Antigravity Reflex
- Cerebellar Reflex

25. 17. Give one example of Deep reflex.

Mark only one oval.

- Scapular reflex
- Anal reflex
- Plantar reflex
- Jaw jerk

26. 18. What is Clonus ?

Mark only one oval.

- involuntary jerky movements due to hypertonicity of muscles in pyramidal tract lesion
- deep reflex is elicited in a normal person, the contractions of a muscle or group of muscles are smooth and continuous.
- due to upper motor neuron lesion
- sudden flash of light reflex

27. 19. Lateral spinothalamic tract is responsible for

Mark only one oval.

- To carry sensation of pain
- carries impulses of crude touch (protopathic) sensation.
- to carry cold temperature sensations
- pathway for subconscious kinesthetic sensation

28. 20. TRACT OF GOLL is responsible for

Mark only one oval.

- Pain
- Temperature
- Balance
- Tactile sensation

29. 21. Ipsilateral Hemiplegia occurs due to

Mark only one oval.

- Unilateral lesion of lateral corticospinal fibers at upper cervical segment
- Bilateral lesion of these fibers in thoracic and lumbar segments
- Lesion at brainstem involves not only pyramidal tract fibers
- Lesion of pyramidal tract fibers at posterior limb of internal capsule

30. 22. Which of the following tract is Extra Pyramidal tract?

Mark only one oval.

- Comma tract of schultze
- Anterior vestibulospinal tract
- Lateral corticospinal tract
- Anterior corticospinal tract

31. 23. Babinski reflex is

Mark only one oval.

- after the one of the toe of the foot has been firmly stroked, big toe then moves upward or toward the top surface of the foot
- after the sole of the foot has been firmly stroked, all the toes then move upward or toward the top surface of the foot
- after the big toe of the foot has been firmly stroked, all the toes then move upward or toward the top surface of the foot
- after the sole of the foot has been firmly stroked, big toe then moves upward or toward the top surface of the foot

32. 24. Fast pain sensation is carried by

Mark only one oval.

- Aδ type afferent fibers
- Aβ type afferent fibers
- C type afferent fibers
- B type afferent fibers

33. 25. At a neuromuscular junction synaptic vesicles discharge

Mark only one oval.

- Epinephrine
- Acetylecholine
- Adrenaline
- Dopamine

34. 26. Broca's area in the left cerebral hemisphere is related to

Mark only one oval.

- Speech
- Learning and memory
- Recognition of words
- Smell sensation

35. 27. Functions of smooth muscles, glands, cardiac muscle are regulated by

Mark only one oval.

- Somatic nerbvous system
- Autnomic nervous system
- Central nervous system
- Sympathetic nervous system

36. 28. Comprehension of spoken and written words take place in the region of

Mark only one oval.

- Association area
- Brocha's area
- Wernicke's area
- Motor area

37. 29. The sensory nerves helpful in maintenance of balance and posture is

Mark only one oval.

- Cutaneous
- Olfactory
- Optic
- Proprioceptor

38. 30. The canal which communicates 3rd and 4th ventricles is called

Mark only one oval.

- Septum lucidum
- Cerebral aqueduct
- Foramen monro
- Tentorium cerebrelli

39. 31. The prt of the brain which plays important role in maintaining CSF pressure is

Mark only one oval.

- Septum lucidum
- Arachnoid villi
- Piamater villi
- Tentorium cerebrelli

40. 32. When a person is sitting CSF pressure is

Mark only one oval.

- 10 cm H2O
- 20 cm H2O
- 30 cm H2O
- 40 cm H2O

41. 33. Best known examples of referred pain is

Mark only one oval.

- Cardiac pain felt in chest surface
- Chronic Headache
- Hand pain
- Chest pain to inner left arm

42. 34. Causes of true visceral pain

Mark only one oval.

- Chest pain to inner left arm
- Chronic Headache
- spasm of viscous
- Muscle pain

43. 35. With concerning anterior horn cells

Mark only one oval.

- Gamma-motor neuron innervate intrafusal muscle fibers
- Alpha-motor neuron innervate exrafusal muscle fibers
- Renshew cell is inhibitory cell to sensory nerve fibers and can block transmission of unwanted sensation
- Gamma-motor neurons cause the muscle spindle to relax

44. 36. In decerebration

Mark only one oval.

- Medullary inhibitory system become non fuctional
- Pontine excitatory system became over-functional
- Block inhibition to vestibular nuclei & Development of rigidity
- all of the statements are correct regrading decerebration

45. 37. Which of the following statement is true?

Mark only one oval.

- Purkinje fibers output is totally to deep cerebellar nuclei
- Vestibulcerebellum inhibit the stretch reflex
- Cerebrocrebellum is acting to perform the damping function of cerebellum
- Asthenia may produced due to defects in climbing fibers

46. 38. With related to parkinsonism, all of the following could happen except

Mark only one oval.

- Rigidity in both flexor and extensors
- There is static tremors
- broad base steps
- absence of arm swinging during walking

47. 39. With related to reticular formation

Mark only one oval.

- Ventral reticulospinal tract is crossed
- Lateral reticulospinal tract is uncrossed
- Reticular formation receives inputs from motor cortex, in addition to basal ganglia
- Pontine reticular system is excitatory

48. 40. all of the following are functions of extrapyramidal tract except :-

Mark only one oval.

- adjustment of skeletal muscle tone
- producing of fine discrete movement
- adjustment of postural activities
- adjustment of muscle movement to meet present plans

49. 41. with related to stretch reflexes

Mark only one oval.

- They have no relation to muscle tone
- Can not be mediated by higher brain centers
- Have no role in stabilizing the body positioning during tense motor activities
- Reciprocal inhibition is a characteristic of the afferent nerve fibers.

50. 42. Which is true about a somatic lower motor neurone

Mark only one oval.

- Innervates fewer fibres in an eye muscle than does one innervating a leg muscle.
- Conducts impulses at a speed similar to that in an autonomic postganglionic neurone.
- Is unmyelinated.
- Conducts impulses which cause relaxation in some skeletal muscles.

51. 43. The brain stem is composed of _____

Mark only one oval.

- Spinal cord
- Axon and vertebra
- Medulla pons and middle brain tissue
- Cerebellum and Medulla

52. 44. What connects two hemispheres of the brain?

Mark only one oval.

- Pons
- Pia matter
- Corpus callosum
- Diencephalon

53. 45. Which part of the brain controls higher mental activities like reasoning?

Mark only one oval.

- Temporal lobe
- Frontal lobe
- Medulla oblongata
- Cerebellum

54. 46. Which part of the brain controls emotion experiences?

Mark only one oval.

- Pia matter
- Hypothalamus
- Limbic system
- Medulla oblongata

55. 47. All preganglionic autonomic neurons secrete:

Mark only one oval.

- Epinephrine
- Acetylcholine
- Nicotine
- Dopamine

56. 48. Sympathetic tone:

Mark only one oval.

- initiated by exposure to stress
- Determines heart rate at rest
- Controls the level of arterial blood pressure
- Is increased by use of a ganglion blocking drugs

57. 49. Which of the following is NOT a functional and anatomical structure of the cerebellum?

Mark only one oval.

- spinocerebellum
- cerebrospinocerebellum
- cerebrocerebellum
- vestibulocerebellum

58. 50. Spinal shock is due to :-

Mark only one oval.

- Severe pain felt at the site of the lesion
- Severe hypotensive shock
- Interruption of the ascending sensory pathways
- Interruption of the descending facilitatory tracts

59. 51. Which of the following is toughest?

Mark only one oval.

- Piamater
- Arachnoidmater
- Dura mater
- Subdural space

60. 52. The properties of muscle spindles and Golgi tendon organs make them most likely to be detectors of

Mark only one oval.

- position sense
- sense of movement
- force sensation
- pain sensation

61. 53. The motor cortex activates the α- and fusimotor neurones via the

Mark only one oval.

- lateral corticospinal tract
- corticorubrospinal tract
- medial corticospinal tract
- both lateral corticospinal tract and corticorubrospinal tract

62. 54. A young, healthy human can detect sound wave frequencies of between

Mark only one oval.

- 10 Hz and 100 kHz
- 40 Hz and 50 kHz
- 40 Hz and 20 kHz
- 5 Hz and 20 kHz

63. 55. The inner most layer of human eye is

Mark only one oval.

- Sclera
- Choroid
- Cornea
- Retina

64. 56. Color blindness is due to defect in

Mark only one oval.

- Rods
- Corneal cell
- Cones
- Rods and cones

65. 57. The purplish red pigment rhodopsin contained in rods type of photoreceptor cell is a derivative of

Mark only one oval.

- Vitamin B1
- Vitamin A
- Vitamin C
- Vitamin D

66. 58. Sense of smell is perceived by

Mark only one oval.

- Pituitary
- Olfactory lobe
- Hypothalamus
- Cerebrum

67. 59. Which of the following taste receptors are present largely in the front portion of the tongue

Mark only one oval.

- Sweet
- Salt
- Bitter
- Sweet and Salt

68. 60. Color perception in man is due to

Mark only one oval.

- Rhodopsin present in rod cells
- Iodopsin present in cone cells
- Rhodopsin present in cone cells
- Iodopsin present in rod cells