Q.P. CODE:504-A-CBME

DR. NTR UNIVERSITY OF HEALTH SCIENCES:AP:VIJAYAWADA-520 008 M.B.B.S. DEGREE EXAMINATION – JAN/FEB, 2022 FIRST M.B.B.S. EXAMINATION

PHYSIOLOGY - PAPER-II(Set A)

(Multiple Choice Questions)

Time: 20 Minutes Max. Marks: 20

Note: Answer all questions

SECTION – I (MCQs- 20 MARKS)

1x2 = 20

- 1) Myelinated nerves
 - a) Axons have smaller diameter
 - b) Nerve impulses travels uniformly along axolemma
 - c) Density of voltage gated Na+ channels are more
 - d) Na+ channels are less in axons
- 2) The following vitamin is essential for oxidation of pyruvic acid and lactic acids in the neurons
 - a) Vitamin B1
 - b) Vitamin B6
 - c) Vitamin B12
 - d) Vitamin B2
- 3) lidocaine
 - a) K+ channel blocker
 - b) Na+-K+ ATPase blocker
 - c) Membrane toxin
 - d) Na+ channel blocker
- 4) In isometric contraction in skeletal muscle, there is
 - a) Increase in muscle length
 - b) Increase in muscle tension
 - c) External work is done
 - d) Decrease in muscle length
- 5) Staircase phenomenon (Treppe) is due to
 - a) Tetanus
 - b) Summation of contraction
 - c) Progressively increased calcium available in the sarcoplasm
 - d) Increased Troponin level in the thin filaments

Contd 2

SET – A :: 2 ::

- 6) Sertoli cells secrete:
 - a) Testosterone
 - b) Estrogen
 - c) Androstenedione
 - d) Inhibin
- 7) The primordial follicle becomes primary follicle at
 - a) 28 weeks of gestation
 - b) 21 weeks of gestation
 - c) 14 weeks of gestation
 - d) 7 weeks of gestation
- 8) Main hormone in luteal phase is:
 - a) Estrogen
 - b) Progesterone
 - c) Prolactin
 - d) Oxytocin
- 9) Progesterone mainly causes development of which component of the breast?
 - a) Duct system
 - b) Lobulo-alveolar system
 - c) Parenchyma of breast
 - d) Myoepithelial cells of breast
- 10) Which is the best contraceptive method for a lady before 1st child birth?
 - a) OCP
 - b) IUD
 - c) Tubectomy
 - d) Diaphragms
- 11) scavenger cells in brain?
 - a) Astrocyte
 - b) Oligodendrocyte
 - c) Golgi cells
 - d) Microglia
- 12) The inhibitory neurotransmitter in CNS neurons is:
 - a) Glutamate
 - b) Aspartate
 - c) Gamma-amino butyric acid
 - d) Taurine

SET – A :: 3 ::

- 13) The action potential from a receptor is generated at:
 - a) Lamella at nerve ending
 - b) Nerve ending
 - c) First node of Ranvier
 - d) Cells attached to the nerve ending
- 14) Which of the following sensation is not carried in dorsal column pathway?
 - a) Vibration
 - b) Stereognosis
 - c) Crude touch
 - d) Proprioception
- 15) Which of the following is 'True' about visceral pain?
 - a) It is poorly localized
 - b) Resembles 'fast pain' produced by noxious stimulation of the skin
 - c) Mediated by B fibers in the dorsal roots of the spinal nerves
 - d) Causes relaxation of nearby skeletal muscles
- 16) The diameter of golgi tendon organ is
 - a) 100mm
 - b) 150mm
 - c) 50mm
 - d) 200mm
- 17) Striatonigral projection; degeneration of this pathway produces
 - a) Parkinsonism
 - b) Huntingtons disease
 - c) Ballism
 - d) Hemiballism
- 18) Slow wave sleep associated with:
 - a) Dreams
 - b) Cardiac arrhythmia
 - c) Penile intumescence
 - d) Delta activity
- 19) The total refractive power of eye is 60 D which is contributed by
 - a) 43 D by lens and 17 D by cornea
 - b) 30 D by lens and 30 D by cornea
 - c) 23 D by lens and 37 D by cornea
 - d) 17 D by lens and 43 D by cornea
- 20) Hemineglect occurs in lesion of:
 - a) Temporal lobe
 - b) Prefrontal lobe
 - c) Parietal lobe
 - d) Frontal lobe

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PHYSIOLOGY - PAPER-II (Set B)

(Multiple Choice Questions)

Time: 20 Minutes Max. Marks: 20

Note: Answer all questions

SECTION - I (MCQs- 20 MARKS)

1x2 = 20

- 1) In isometric contraction in skeletal muscle, there is
 - a) Increase in muscle tension
 - b) External work is done
 - c) Decrease in muscle length
 - d) Increase in muscle length
- 2) lidocaine
 - a) Na+-K+ ATPase blocker
 - b) Membrane toxin
 - c) Na+ channel blocker
 - d) K+ channel blocker
- 3) The following vitamin is essential for oxidation of pyruvic acid and lactic acids in the neurons
 - a) Vitamin B6
 - b) Vitamin B12
 - c) Vitamin B2
 - d) Vitamin B1
- 4) Myelinated nerves
 - a) Nerve impulses travels uniformly along axolemma
 - b) Density of voltage gated Na+ channels are more
 - c) Na+ channels are less in axons
 - d) Axons have smaller diameter
- 5) Main hormone in luteal phase is:
 - a) Estrogen
 - b) Progesterone
 - c) Prolactin
 - d) Oxytocin
- 6) The primordial follicle becomes primary follicle at
 - a) 21 weeks of gestation
 - b) 14 weeks of gestation
 - c) 7 weeks of gestation
 - d) 28 weeks of gestation

SET – B :: 2 ::

- 7) Sertoli cells secrete:
 - a) Estrogen
 - b) Androstenedione
 - c) Inhibin
 - d) Testosterone
- 8) Staircase phenomenon (Treppe) is due to
 - a) Summation of contraction
 - b) Progressively increased calcium available in the sarcoplasm
 - c) Increased Troponin level in the thin filaments
 - d) Tetanus
- 9) The inhibitory neurotransmitter in CNS neurons is:
 - a) Aspartate
 - b) Gamma-amino butyric acid
 - c) Taurine
 - d) Glutamate
- 10) scavenger cells in brain?
 - a) Astrocyte
 - b) Oligodendrocyte
 - c) Golgi cells
 - d) Microglia
- 11) Which is the best contraceptive method for a lady before 1st child birth?
 - a) IUD
 - b) Tubectomy
 - c) Diaphragms
 - d) OCP
- 12) Progesterone mainly causes development of which component of the breast?
 - a) Lobulo-alveolar system
 - b) Parenchyma of breast
 - c) Myoepithelial cells of breast
 - d) Duct system
- 13) The diameter of golgi tendon organ is
 - a) 100mm
 - b) 150mm
 - c) 50mm
 - d) 200mm

SET - B :: 3 ::

- 14) Which of the following is 'True' about visceral pain?
 - a) Resembles 'fast pain' produced by noxious stimulation of the skin
 - b) Mediated by B fibers in the dorsal roots of the spinal nerves
 - c) Causes relaxation of nearby skeletal muscles
 - d) It is poorly localized
- 15) Which of the following sensation is not carried in dorsal column pathway?
 - a) Vibration
 - b) Stereognosis
 - c) Crude touch
 - d) Proprioception
- 16) The action potential from a receptor is generated at:
 - a) Nerve ending
 - b) First node of Ranvier
 - c) Cells attached to the nerve ending
 - d) Lamella at nerve ending
- 17) Hemineglect occurs in lesion of:
 - a) Prefrontal lobe
 - b) Parietal lobe
 - c) Frontal lobe
 - d) Temporal lobe
- 18) The total refractive power of eye is 60 D which is contributed by
 - a) 30 D by lens and 30 D by cornea
 - b) 23 D by lens and 37 D by cornea
 - c) 17 D by lens and 43 D by cornea
 - d) 43 D by lens and 17 D by cornea
- 19) Slow wave sleep associated with:
 - a) Cardiac arrhythmia
 - b) Penile intumescence
 - c) Delta activity
 - d) Dreams
- 20) Striatonigral projection; degeneration of this pathway produces
 - a) Huntingtons disease
 - b) Ballism
 - c) Hemiballism
 - d) Parkinsonism

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PHYSIOLOGY - PAPER-II (Set C)

(Multiple Choice Questions)

Time: 20 Minutes Max. Marks: 20

Note: Answer all questions

SECTION – I (MCQs- 20 MARKS)

1x2 = 20

- 1) lidocaine
 - a) Membrane toxin
 - b) Na+ channel blocker
 - c) K+ channel blocker
 - d) Na+-K+ ATPase blocker
- 2) Myelinated nerves
 - a) Density of voltage gated Na+ channels are more
 - b) Na+ channels are less in axons
 - c) Axons have smaller diameter
 - d) Nerve impulses travels uniformly along axolemma
- 3) In isometric contraction in skeletal muscle, there is
 - a) Decrease in muscle length
 - b) Increase in muscle length
 - c) Increase in muscle tension
 - d) External work is done
- 4) The following vitamin is essential for oxidation of pyruvic acid and lactic acids in the neurons
 - a) Vitamin B2
 - b) Vitamin B1
 - c) Vitamin B6
 - d) Vitamin B12
- 5) The primordial follicle becomes primary follicle at
 - a) 7 weeks of gestation
 - b) 28 weeks of gestation
 - c) 21 weeks of gestation
 - d) 14 weeks of gestation
- 6) Staircase phenomenon (Treppe) is due to
 - a) Increased Troponin level in the thin filaments
 - b) Tetanus
 - c) Summation of contraction
 - d) Progressively increased calcium available in the sarcoplasm

SET - C :: 2 ::

- 7) Main hormone in luteal phase is:
 - a) Oxytocin
 - b) Estrogen
 - c) Progesterone
 - d) Prolactin
- 8) Sertoli cells secrete:
 - a) Inhibin
 - b) Testosterone
 - c) Estrogen
 - d) Androstenedione
- 9) scavenger cells in brain?
 - a) Microglia
 - b) Astrocyte
 - c) Oligodendrocyte
 - d) Golgi cells
- 10) Progesterone mainly causes development of which component of the breast?
 - a) Myoepithelial cells of breast
 - b) Duct system
 - c) Lobulo-alveolar system
 - d) Parenchyma of breast
- 11) The inhibitory neurotransmitter in CNS neurons is:
 - a) Aspartate
 - b) Gamma-amino butyric acid
 - c) Taurine
 - d) Glutamate
- 12) Which is the best contraceptive method for a lady before 1st child birth?
 - a) IUD
 - b) Tubectomy
 - c) Diaphragms
 - d) OCP
- 13) Which of the following is 'True' about visceral pain?
 - a) Resembles 'fast pain' produced by noxious stimulation of the skin
 - b) Mediated by B fibers in the dorsal roots of the spinal nerves
 - c) Causes relaxation of nearby skeletal muscles
 - d) It is poorly localized

SET – C :: 3 ::

- 14) The action potential from a receptor is generated at:
 - a) First node of Ranvier
 - b) Cells attached to the nerve ending
 - c) Lamella at nerve ending
 - d) Nerve ending
- 15) The diameter of golgi tendon organ is
 - a) 100mm
 - b) 150mm
 - c) 50mm
 - d) 200mm
- 16) Which of the following sensation is not carried in dorsal column pathway?
 - a) Crude touch
 - b) Proprioception
 - c) Vibration
 - d) Stereognosis
- 17) The total refractive power of eye is 60 D which is contributed by
 - a) 23 D by lens and 37 D by cornea
 - b) 17 D by lens and 43 D by cornea
 - c) 43 D by lens and 17 D by cornea
 - d) 30 D by lens and 30 D by cornea
- 18) Striatonigral projection; degeneration of this pathway produces
 - a) Ballism
 - b) Hemiballism
 - c) Parkinsonism
 - d) Huntingtons disease
- 19) Hemineglect occurs in lesion of:
 - a) Parietal lobe
 - b) Frontal lobe
 - c) Temporal lobe
 - d) Prefrontal lobe
- 20) Slow wave sleep associated with:
 - a) Penile intumescence
 - b) Delta activity
 - c) Dreams
 - d) Cardiac arrhythmia

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PHYSIOLOGY - PAPER-II (Set D)

(Multiple Choice Questions)

Time: 20 Minutes Max. Marks: 20

Note: Answer all questions

SECTION – I (MCQs- 20 MARKS)

1x2 = 20

- 1) The following vitamin is essential for oxidation of pyruvic acid and lactic acids in the neurons
 - a) Vitamin B2
 - b) Vitamin B1
 - c) Vitamin B6
 - d) Vitamin B12
- 2) In isometric contraction in skeletal muscle, there is
 - a) Decrease in muscle length
 - b) Increase in muscle length
 - c) Increase in muscle tension
 - d) External work is done
- 3) Myelinated nerves
 - a) Density of voltage gated Na+ channels are more
 - b) Na+ channels are less in axons
 - c) Axons have smaller diameter
 - d) Nerve impulses travels uniformly along axolemma
- 4) lidocaine
 - a) Na+ channel blocker
 - b) K+ channel blocker
 - c) Na+-K+ ATPase blocker
 - d) Membrane toxin
- 5) Sertoli cells secrete:
 - a) Inhibin
 - b) Testosterone
 - c) Estrogen
 - d) Androstenedione
- 6) Main hormone in luteal phase is:
 - a) Estrogen
 - b) Progesterone
 - c) Prolactin
 - d) Oxytocin

SET – D :: 2 ::

- 7) Staircase phenomenon (Treppe) is due to
 - a) Tetanus
 - b) Increased Troponin level in the thin filaments
 - c) Summation of contraction
 - d) Progressively increased calcium available in the sarcoplasm
- 8) The primordial follicle becomes primary follicle at
 - a) 7 weeks of gestation
 - b) 28 weeks of gestation
 - c) 21 weeks of gestation
 - d) 14 weeks of gestation
- 9) Which is the best contraceptive method for a lady before 1st child birth?
 - a) Tubectomy
 - b) Diaphragms
 - c) OCP
 - d) IUD
- 10) The inhibitory neurotransmitter in CNS neurons is:
 - a) Gamma-amino butyric acid
 - b) Taurine
 - c) Glutamate
 - d) Aspartate
- 11) Progesterone mainly causes development of which component of the breast?
 - a) Myoepithelial cells of breast
 - b) Duct system
 - c) Lobulo-alveolar system
 - d) Parenchyma of breast
- 12) Scavenger cells in brain?
 - a) Microglia
 - b) Astrocyte
 - c) Oligodendrocyte
 - d) Golgi cells
- 13) Which of the following sensation is not carried in dorsal column pathway?
 - a) Stereognosis
 - b) Crude touch
 - c) Proprioception
 - d) Vibration

SET – D :: 3 ::

- 14) The diameter of golgi tendon organ is
 - a) 200mm
 - b) 100mm
 - c) 150mm
 - d) 50mm
- 15) The action potential from a receptor is generated at:
 - a) Cells attached to the nerve ending
 - b) Lamella at nerve ending
 - c) Nerve ending
 - d) First node of Ranvier
- 16) Which of the following is 'True' about visceral pain?
 - a) Causes relaxation of nearby skeletal muscles
 - b) It is poorly localized
 - c) Resembles 'fast pain' produced by noxious stimulation of the skin
 - d) Mediated by B fibers in the dorsal roots of the spinal nerves
- 17) Slow wave sleep associated with:
 - a) Dreams
 - b) Delta activity
 - c) Cardiac arrhythmia
 - d) Penile intumescence
- 18) Hemineglect occurs in lesion of:
 - a) Temporal lobe
 - b) Prefrontal lobe
 - c) Parietal lobe
 - d) Frontal lobe
- 19) Striatonigral projection; degeneration of this pathway produces
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 - b) 17 D by lens and 43 D by cornea
 - c) 43 D by lens and 17 D by cornea
 - d) 30 D by lens and 30 D by cornea
