

MCQ'S PREVIOUS PAPERS

2K23 Batch Instants

CBME: M102A021

Dr NTR UNIVERSITY OF HEALTH SCIENCES:AP:VIJAYAWADA-520 008

M.B.B.S. DEGREE EXAMINATION – OCTOBER, 2024

FIRST M.B.B.S. EXAMINATION

PHYSIOLOGY – PAPER-II SET-(B)

(Multiple Choice Questions)

Time : 20 minutes

Max. Marks: 20

Note : Answer all questions

SECTION – I (MCQs- 1X20=20 MARKS)

- 1) All the sensations travel in the dorsal column pathway, EXCEPT:

- a) Crude touch
- b) Fine touch
- c) Vibration
- d) Two-point discrimination

A

- 2) The inhibitory neurotransmitter in CNS neurons is:

- a) Glutamate
- b) Gamma-amino-butyric acid
- c) Aspartate
- d) Taurine

B

- 3) EPSP can be caused by all, EXCEPT:

- a) Opening of sodium channels
- b) Opening of calcium channels
- c) Opening of chloride channels
- d) Closure of potassium channels

C

- 4) Which of the following is a type of glial cell in the brain?

- a) Purkinje cells
- b) Basket cells
- c) Stellate cells
- d) Ependymal cells

D

- 5) All of the following are nuclear groups of basal ganglia, EXCEPT:

- a) Red nucleus
- b) Putamen
- c) Globus pallidus
- d) Caudate nucleus

A

- 6) In upper motor neuron paralysis,

- a) Denervation potentials are seen in EMG
- b) Superficial reflexes are absent
- c) Nerve conduction is decreased
- d) Pronounced atrophy is observed

A

Contd.2..

MCQ'S PREVIOUS PAPERS

PHYSIOLOGY – PAPER-II SET-(B)

::2::

- 7) The muscle spindle
a) Has Ib fiber as an afferent neuron
 b) Has flower-spray endings on the nuclear bag fiber
c) Is stretched when gamma motor neuron is stimulated
d) Gives force feedback to the muscle B
- 8) Which of the following is not a theory of referred pain?
 a) Convergence theory
 b) Facilitation theory
c) Dermatomal theory
d) Gate control theory C
- 9) Main hormone in the luteal phase is
 a) Progesterone
b) Estrogen
c) Prolactin
d) Relaxin A
- 10) The hormones secreted in more quantity in the early part of pregnancy is
a) Estrogen
 b) hCG
c) Prolactin
d) Relaxin B
- 11) Broca's area is concerned with
 a) Reading
b) Repetition
c) Word formation
 d) Comprehension D
- 12) Otolith organs are present in
a) Semicircular canals
 b) Cochlea
c) Lateral vestibular nucleus
d) Saccule B
- 13) Normal intraocular pressure is
a) 10-20 mmHg
b) 20-30 mmHg
 c) 30-40 mmHg
d) 5-10 mmHg A
- 14) In Klinefelter's syndrome,
 a) Karyotype is XXX
 b) Tall male with small testes
c) Dwarf with webbing of the neck
d) Vagina ends in a blind pouch B
- 15) Estrogen
a) Causes growth of ducts of mammary gland
b) Increases uterine blood flow
c) Makes the cervical mucus thick and sticky
 d) Increases excitability of uterine muscle D

Contd.3..

MCQ'S PREVIOUS PAPERS

PHYSIOLOGY – PAPER-II SET-(B)

::3::

- 16) Intrauterine device does not
 a) Act as a foreign body
b) Interfere with endometrial preparation
c) Produce cellular reaction
d) Inhibit pituitary gonadotropin release
- 17) In otosclerosis, the pathology mainly lies in
 a) Tympanic membrane
b) Malleus
c) Incus
d) Stapes
- 18) The resting membrane potential of cochlear hair cells is
a) -15 mV
b) -60 mV
c) -30 mV
 d) -60 mV
 e) -90 mV
- 19) The taste buds are present in all of the following papillae, EXCEPT:
a) Circumvallate
b) Fungiform
 c) Cuneate
d) Foliate
- 20) Brain area that does not receive olfactory sensation is
a) Piriform cortex
 b) Amygdala
c) Anterior olfactory nucleus
d) Anterior nucleus of the thalamus

A

D

B

C

B

MCQ'S PREVIOUS PAPERS

S.NO.	Dr. NTR UNIVERSITY OF HEALTH SCIENCES:AP::VIJAYAWADA Final Key – 1 MBBS Exams - October, 2024 PHYSIOLOGY- PAPER-II			
	SET-A	SET-B	SET-C	SET-D
1)	A	A	C	C
2)	C	B	A	B
3)	C	C	B	A
4)	B	D	C	C
5)	A	A	B	D
6)	D	B	A	D
7)	B	C	D	A
8)	D	D	D	B
9)	A	A	C	C
10)	C	B	A	B
11)	C	C	B	A
12)	B	D	C	C
13)	D	A	B	A
14)	A	B	D	B
15)	B	C	B	D
16)	B	D	A	B
17)	C	A	C	A
18)	A	B	C	C
19)	C	C	C	C
20)	C	D	A	C

MCQ'S PREVIOUS PAPERS

2K23 Batch Regular

CBME

Dr NTR UNIVERSITY OF HEALTH SCIENCES: AP: VIJAYAWADA-520 008
M.B.B.S. DEGREE EXAMINATION – AUGUST, 2024
FIRST M.B.B.S. EXAMINATION
PHYSIOLOGY – PAPER-II (SET-B)
(Multiple Choice Questions)

Time : 20 minutes

Max. Marks: 20

Note : Answer all questions

SECTION-I (MCQs) -1X20=20 MARKS

- 1) In the contracted state of skeletal muscle, the width of
 a) A band decreases
 b) H band increases
 c) I band decreases
 d) I band increases
Note: a/b
- 2) At the neuromuscular junction, the motor neuron releases
 a) Norepinephrine
 b) Histamine
 c) Acetylcholine
 d) Neurotrophin
Note: b/c
- 3) Rheobase denotes
 a) Specificity of impulse transmission
 b) Rate of discharge of neuron
 c) Strength of current
 d) Duration of current
Note: b/d
- 4) Graded potential is generated in the neuron at
 a) Dendrites
 b) Axon hillock
 c) Axon
 d) Axon terminal
Note: c
- 5) Which of the following is not true about the parturition reflex?
 a) It is a neurohumoral reflex
 b) Oxytocin is the main hormone to induce uterine contraction
 c) Control of uterine contraction by oxytocin is an example of negative feedback regulation
 d) Estrogen increases the number and sensitivity of oxytocin receptors in the uterine muscle
Note: c
- 6) Which of the following is not the function of relaxin?
 a) Inhibits uterine contraction
 b) Inhibits sperm motility
 c) Dilation of uterine cervix
 d) Relaxation of pubic symphysis
Note: b
- 7) Ovulation is associated with a sudden preovulatory(surge) rise in
 a) GnRH and FSH
 b) Testosterone
 c) LH
 d) Oxygen
Note: c

MCQ'S PREVIOUS PAPERS

Dr NTR UNIVERSITY OF HEALTH SCIENCES

PHYIOLOGY - PAPER-II (SET-B)

::2::

- 8) Single unit smooth muscle means
a) Multiple fibers functioning as a single unit
b) Single muscle cell
c) Single stimulus to the muscle produces successive contractions
d) Each muscle fiber contracts independently of other
- 9) Which of the following is not a theory of referred pain:
a) Gate control theory *a/10*
b) Facilitation theory
c) Convergence theory
d) Dermatomal theory
- 10) Renshaw cell inhibition is an example of:
a) Negative feedback inhibition
b) Positive feedback inhibition *Not Sustained*
c) Postsynaptic inhibition
d) Feedforward inhibition
- 11) Which is the best female contraceptive method after child birth, not desirous of further deliveries?
a) IUD
b) OCP
c) Tubectomy
d) Diaphragms *Not Sustained*
- 12) Estrogen mainly causes the development of components of the breast:
a) Duct system
b) Lobulo-alveolar system
c) Parenchyma of breast
d) Myoepithelial cells of the breast
- 13) Lower motor neuron paralysis will not manifest as:
a) Muscle hypertonia
b) Muscle atrophy
c) Depressed tendon reflexes
d) Babinski no response or negative
- 14) All are true about inverse stretch reflex, EXCEPT:
a) Receptor is GTO
b) Afferent is Ib fiber
c) Afferent terminates on interneuron that contacts homonymous motoneuron
d) Monosynaptic reflex
- 15) In sensory homunculus, which of the following body part is most represented?
a) Face
b) Neck
c) Trunk
d) Legs *Not Sustained*

Contd.3..

MCQ'S PREVIOUS PAPERS

PHYSIOLOGY – PAPER-II (SET-B)

::3::

- 16) Which of the following is not the direct function of the thalamus?
- a) Relay center of all sensations
 - b) Perception of pain temperature and pressure
 - c) Sensory-motor coordination
- Secretion of hormones
- 17) Broca's area is concerned with:
- a) Word formation
 - b) Comprehension
 - c) Repetition
 - d) Reading
- 18) Which of the following is not a feature of Kluver-Bucy syndrome?
- a) Hypersexuality
 - b) Hypophagia
 - c) Visual agnosia
 - d) Respond to every stimulus and explore everything
- 19) Which of the following nucleus controls the circadian rhythm?
- a) Supraoptic nucleus
 - b) Paraventricular nucleus
 - c) Suprachiasmatic nucleus
 - d) Premammillary nucleus.
- 20) All the following are nuclear groups of basal ganglia, EXCEPT:
- a) Supraoptic nucleus
 - b) Paraventricular nucleus
 - c) Suprachiasmatic nucleus
 - d) Premammillary nucleus

MCQ'S PREVIOUS PAPERS

Dr NTR UNIVERSITY OF HEALTH SCIENCES :: A.P.:: VIJAYAWADA
1st MBBS AUGUST, 2024 Exams

SET-B

PHYSIOLOGY - II
(Final key)

S.NO.	KEY ANSWER
1)	C
2)	C
3)	C
4)	A
5)	C
6)	B
7)	C
8)	A&D
9)	A
10)	A&C
11)	C
12)	A
13)	A
14)	C&D
15)	A
16)	D
17)	A
18)	B
19)	C
20)	A,B,C,D

MCQ'S PREVIOUS PAPERS

2022 Batch (Instants)

DR. YSR UNIVERSITY OF HEALTH SCIENCES: AP: VIJAYAWADA-520 008
M.B.B.S. DEGREE EXAMINATION – MARCH, 2024
FIRST M.B.B.S. EXAMINATION
PHYSIOLOGY – PAPER-II (SET-C)
(Multiple Choice Questions)

CBME: M102A021

Time : 20 minutes
Note : Answer all questions

Max. Marks: 20

SECTION-I (MCQs-20 MARKS)

1) Normally innocuous stimuli such as touch cause pain 1X20=20
 a) Allodynia
 b) Hyperalgesia
 c) Analgesia
 d) Hypoalgesia

2) Which of the following is a motor tract?
 a) Posterior spinocerebellar
 b) Lateral spinothalamic
 c) Lateral corticospinal
 d) Posterior column

3) Which of these is not a neurotransmitter in the autonomic nervous system?
 a) Acetylcholine
 b) Norepinephrine
 c) Neuropeptide Y
 d) Muscarine

4) In a healthy, alert adult sitting with the eyes closed, the dominant EEG rhythm observed with electrodes over the occipital lobes is
 a) Alpha (8-13 Hz)
 b) Beta (18-30 Hz)
 c) Theta (4-7 Hz)
 d) Delta (0.5-4 Hz)

5) Responsible for milk ejection or milk letdown
 a) Prolactin
 b) Prostaglandins
 c) Estrogens
 d) Oxytocin

6) Center for Procedural Memory (a subdivision of implicit memory) that includes skills and habits
 a) Neocortex
 b) Striatum
 c) Amygdala
 d) Cerebellum

15 - D
16 - E

pto

MCQ'S PREVIOUS PAPERS

::2::

- 7) In which disorder, XO chromosomal pattern, the gonads are rudimentary or absent
a) Klinefelter's syndrome
 b) Turner's syndrome
c) Down's syndrome
d) Testicular feminizing syndrome
- 8) Decidual cells are found in the
a) Placenta
b) Prostate
 c) Uterus
d) Hypothalamus
- 9) Which of the following pituitary hormones is an opioid peptide?
a) β -MSH
b) ACTH
 c) Growth hormone
d) β -Endorphin
- 10) First menstrual period is called
a) Menopause
b) Thelarche
c) Adrenarche
 d) Menarche
- 11) Thyroid deficiency in children
a) Down's syndrome
b) Gigantism
c) Ovarian agenesis
 d) Cretinism
- 12) Spermatozoa are produced in
a) Epididymis
b) Seminal vesicles
 c) Seminiferous tubules
d) Prostate gland
- 13) Postpartum pituitary necrosis
a) Nelson's syndrome
 b) Sheehan's syndrome
 c) Cushing's syndrome
d) Kaspar Hauser syndrome

Contd..3.....

MCQ'S PREVIOUS PAPERS

1:3:

- 14) An androgen
a) Corticosterone
b) Transcortin
c) Dihydroepiandrosterone
d) Aldosterone
- 15) Which of the following has the slowest conduction velocity?
a) A_B fibers
b) A_X fibers
c) A_a fibers
d) C fibers
- 16) Calcidiol is converted to the more active metabolite calcitriol, in
a) Adipose tissue
X b) Intestine
c) Kidneys
d) Liver
- 17) If a muscle that has contracted isotonically is restored to its previous length, extra heat in addition to recovery heat is called
a) Shortening heat
b) Initial heat
c) Contracting heat
d) Relaxation heat
- 18) In which of the following is a ligand-gated ion channel
a) GABA_A receptor
X b) GABA_B receptor
c) Norepinephrine receptor
d) VIP receptor
- 19) Duchenne's muscular dystrophy is due to defect in
a) Nebulin
b) Dystrophin
c) Troponin
d) Titin
- 20) Sustained contraction of a muscle, with no relaxation between stimuli
a) Muscle fatigue
b) Twitch contraction
c) Norepinephrine receptor
d) VIP receptor

MCQ'S PREVIOUS PAPERS

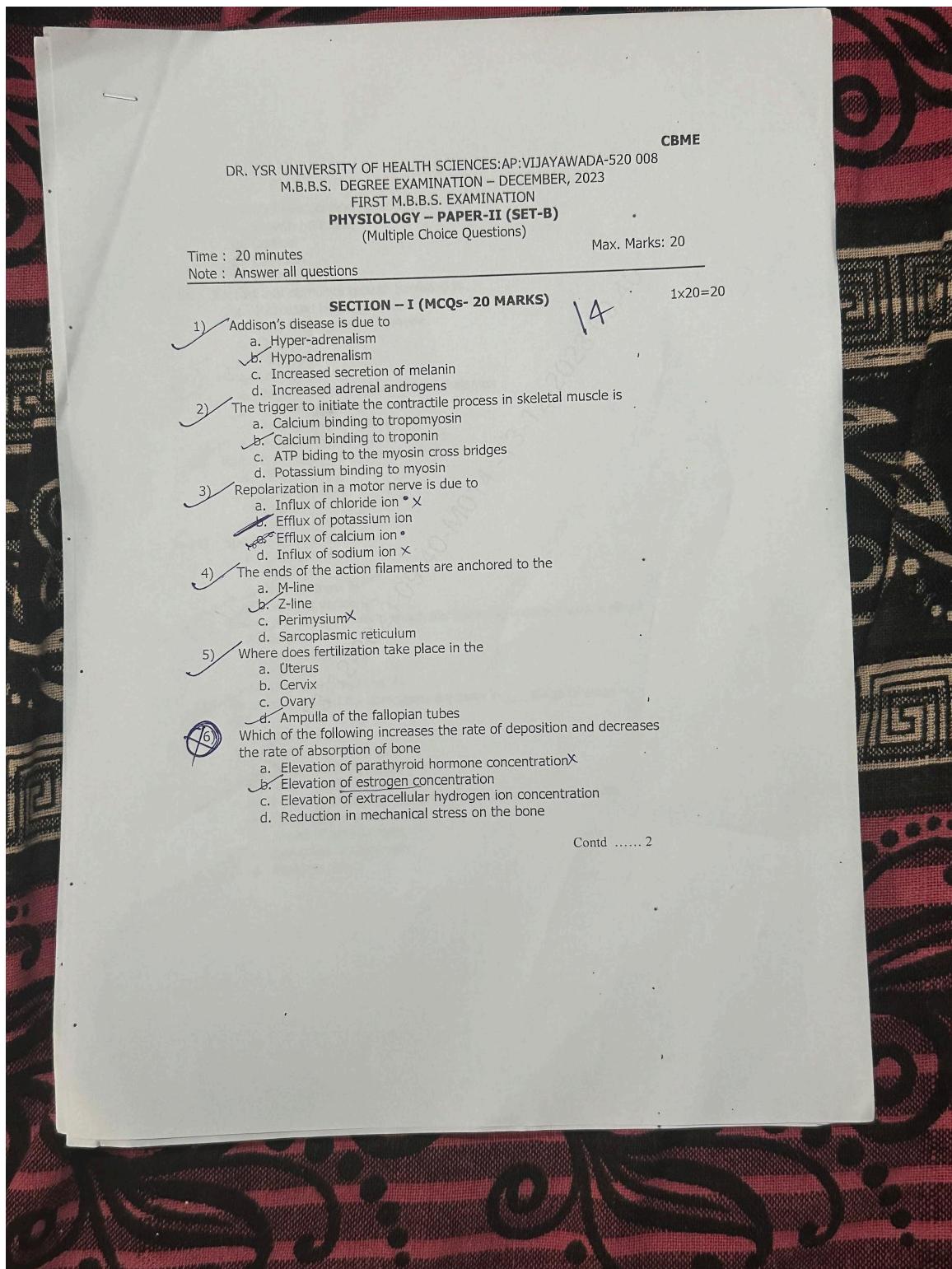
Dr.Y.S.R. UNIVERSITY OF HEALTH SCIENCES::AP::VIJAYAWADA.

Final Key – 1 MBBS Supplementary/March , 2024

S.NO.	PHYSIOLOGY PAPER-II			
	SET-A	SET-B	SET-C	SET-D
1)	C	D	A	A
2)	A	A	C	D
3)	A	A	D	C
4)	D	C	A	A
5)	B	B	D	C
6)	C	D	B	B
7)	D	C	B	B
8)	B	B	C	D
9)	D	D	D	C
10)	C	D	D	D
11)	D	C	D	D
12)	D	D	C	D
13)	C	D	B	C
14)	C	B	C	D
15)	B	C	D	C
16)	D	C	C	B
17)	A	B	D	ABCD
18)	ABCD	D	A	B
19)	D	ABCD	B	A
20)	B	A	ABCD	D

MCQ'S PREVIOUS PAPERS

2022 Batch (Regular)



MCQ'S PREVIOUS PAPERS

:: B - 2 ::

Example of neuroendocrine secretion

- a. Growth hormone
- b. Cortisol
- c. Oxytocin
- d. Prolactin

8) Factors that stimulate growth hormone is

- a. Increased blood glucose X
- b. Exogenous growth hormone
- c. Ghrelin
- d. Testosterone

9) Hunger center is

- a. Ventro-medial nucleus of hypothalamus
- b. Lateral hypothalamic nucleus
- c. Anterior hypothalamic nucleus
- d. Posterior hypothalamic nucleus

10) Episodic memories are formed in the

- a. Amygdala
- b. Hippocampus
- c. Neocortex
- d. Uncus

11) Sperms become motile in

- a. Prostate X
- b. Epididymis X
- c. Vas deferens X
- d. Seminal vesicle X

12) Failure rate is maximum in which the following contraceptive method

- a. Barrier
- b. Contraceptives X
- c. IUD X
- d. Oral contraceptives X

13) Sleep spindles and K+ complexes are seen in ___ stage of sleep in EEG

- a. REM sleep
- b. Stage - 2 NREM sleep
- c. Stage - 3 NREM sleep
- d. Stage - 4 NREM sleep

14) Mossy fibers in cerebellum make direct synaptic connection with

- a. Dendrites of granule cells
- b. Axons of granule cells
- c. Dendrites of Golgi cells
- d. Purkinje cells

Contd 3

MCQ'S PREVIOUS PAPERS

:: B - 3 ::

- X 15) The afferent climbing fibers to the cerebellum originate from
a. Superior olivary nucleus ✓
b. Inferior olivary nucleus
c. Superior vestibular nucleus
d. Inferior vestibular nucleus
- X 16) Golgi tendon organ determines
a. Static length
b. Muscle action
c. Muscle tension
d. Dynamic length
- ✓ 17) Prosopagnosia is
a. Inability to recognize faces ✓
b. Inability to recognize words
c. Inability to hear the sounds
d. Inability to recognize smell
- ✓ 18) Large number of taste buds are on the walls of the
a. Circumvallate papillae
b. Fungiform papillae
c. Foliate papillae
d. Palate
- ✓ 19) One decibel represents an actual increase in sound energy of
a. 1.26 times
b. 2.26 times
c. 3.26 times ✓
d. 4.26 times
- ✓ 20) Athetosis is characterized by
a. (Continuous) slow writhing movements
b. Rapid voluntary dancing movements X
c. Involuntary flailing movements
d. Slowness of movements

MCQ'S PREVIOUS PAPERS

Dr YSR UNIVERSITY OF HEALTH SCIENCES :: A.P.: VIJAYAWADA
1st MBBS December, 2023 Exams

SET-B

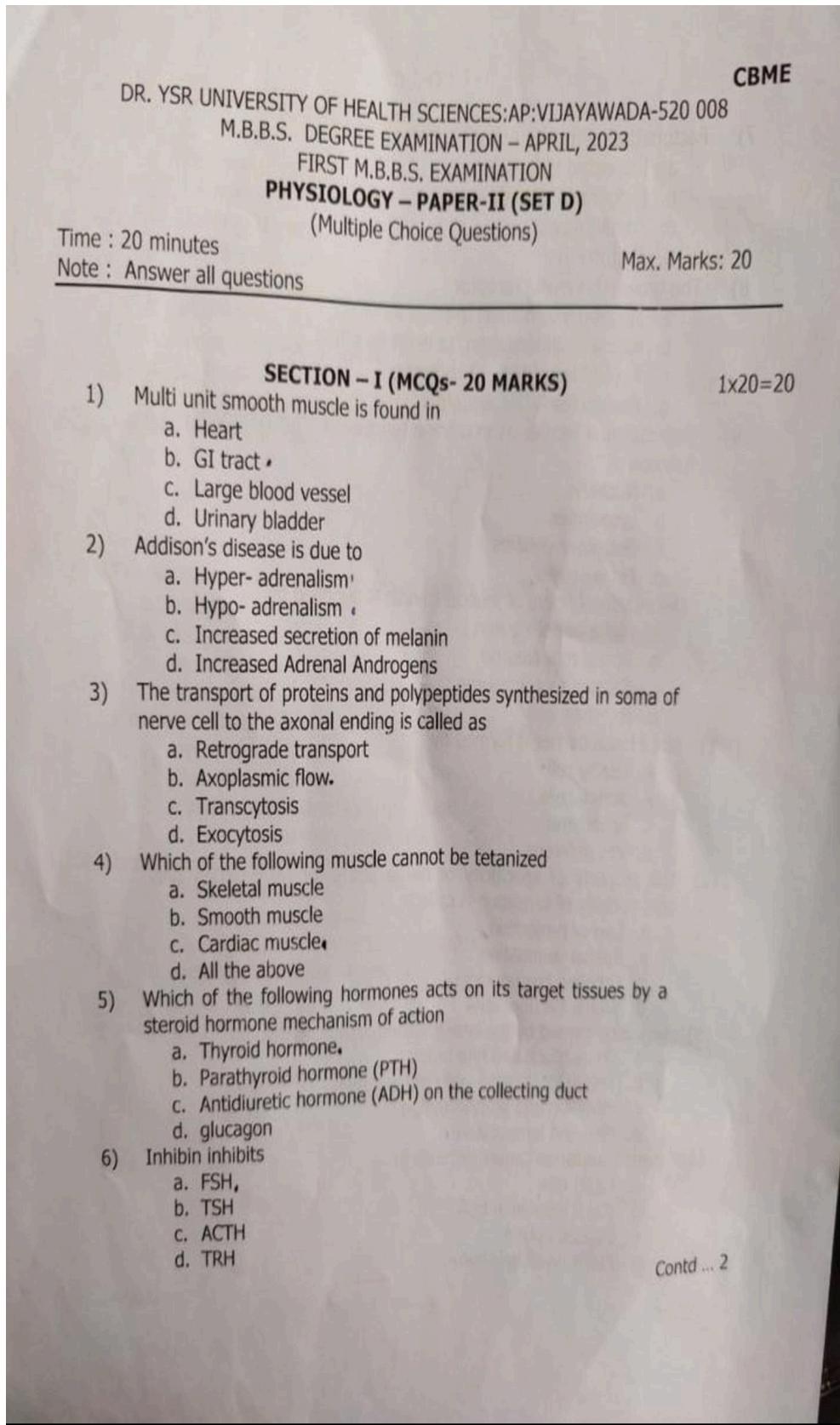
PHYSIOLOGY - II
(Final key)

S.NO.	KEY ANSWER
1)	B
2)	B
3)	B
4)	B
5)	D
6)	A,B
7)	C
8)	C,D
9)	A,B
10)	B
11)	B
12)	A
13)	B
14)	A
15)	B
16)	C
17)	A
18)	A
19)	A
20)	A

9)B*

MCQ'S PREVIOUS PAPERS

2021 Batch (Instants)



MCQ'S PREVIOUS PAPERS

::D-2 ::

- 7) Factors that stimulate growth hormone is 15)
a. Increased blood glucose
b. Exogenous growth hormone
c. Somatomedin.
d. Testosterone
- 8) The growth hormone receptor
a. Must be internalized to exert its effect
b. Requires dimerization to exert its effect
c. Resembles of IGF – I receptor,
d. Resembles ACTH receptor.
- 9) Regression of tissues as in uterine regression after pregnancy is a function of
a. Nucleus
b. Lysosomes
c. Secretory vesicles
d. Peroxisomes.
- 10) The intrafusal fibers of muscle spindle is supplied by
a. Alpha motor neuron ,
b. Dorsal root Neuron
c. Gamma motor neuron
d. Renshaw cell
- 11) Blood testis barrier is formed by
a. Leydig cell•
b. Sertoli cells
c. Epididymis
d. Vas deferens
- 12) The property of specificity of nerve fibers for transmitting only one modality of sensation is called
a. Law of projection,
b. Spatial summation
c. Labelled line principle.
d. Weber Fechner law-
- 13) Sensation carried by the lateral spinothalamic tract is
a. Crude touch and fine touch
b. Tactile localization and discrimination
c. Vibration and proprioception
d. Pain and temperature,
- 14) Vagal stimulation causes increase in
a. Heart rate
b. R – R interval in ECG
c. Cardiac output
d. Force on contraction.

MCQ'S PREVIOUS PAPERS

::D-3 ::

- 15) The increase in heart rate following an increase in Atrial pressure is called as
- Bain bridge reflex
 - Volume reflex
 - Cushing's Reflex
 - Baroreceptor reflex
- 16) The nucleus responsible for maintaining circadian rhythm is
- Subthalamic nucleus
 - Suprachiasmatic nucleus
 - Raphe nucleus
 - Lateral reticular nucleus
- 17) Refractive index of cornea is
- 1.39
 - 1.33
 - 1.42
 - 1.37
- 18) The Refractive error which occurs in elderly people is
- Myopia
 - Astigmatism
 - Hypermetropia
 - Presbyopia
- 19) Parkinson's disease is characterized by the following triad
- Hypokinesia, rigidity, tremors
 - Rigidity, tremors, nystagmus
 - Placidity, intentional tremors, ataxia
 - Rigidity, hypokinesia, dysarthria
- 20) Lesion in optic chiasma causes
- Binasal hemianopia
 - Bitemporal hemianopia
 - Contralateral homonymous hemianopia
 - Ipsilateral complete blindness

MCQ'S PREVIOUS PAPERS

2021 Batch (Regular)

DR. YSR UNIVERSITY OF HEALTH SCIENCES: AP. VIJAYAWADA - 520 008
M.B.B.S. DEGREE EXAMINATION - JANUARY, 2023
FIRST M.B.B.S. EXAMINATION
PHYSIOLOGY – PAPER-II (SET – B)
(Multiple Choice Questions)

CBME

Time : 20 minutes
Note : Answer all questions

Max. Marks: 20

SECTION – I (MCQs- 20 MARKS) $1 \times 20 = 20$

1) The sensation carried by the lateral spinothalamic tract is

- a) Vibration
- b) Fine touch
- c) Warmth
- d) Stereognosis

2) With respect to pain, a correct statement is:

- a) Free nerve endings are the pain receptors
- b) Visceral pain reaches the spinal cord through motor nerve fibers
- c) Fibers carrying pain impulses synapse at nucleus cuneatus in the medulla
- d) Pain is carried by dorsal column tract

3) Slow waves in visceral smooth muscle

- a) Can initiate action potential
- b) Are also called pacemaker waves
- c) Arise without an external stimulus
- d) All of the above

4) Which one of the following is **NOT** true about compound action potential in a mixed nerve

- a) Obeys all/no law
- b) First peak belongs to slowest conducting fiber
- c) Shows different peaks
- d) First peak belongs to fastest conducting fiber

5) Flushing, anhidrosis, ptosis, miosis and absence of ciliospinal reflex is seen in

- a) Brown Sequard Syndrome
- b) Cushing's reflex
- c) Tabes dorsalis
- d) Horner's syndrome

Contd 2

MCQ'S PREVIOUS PAPERS

:: B-2 ::

- 6) Which of the following neurotransmitters is used by the axons of substantia nigra neurons, which project to the caudate and putamen?
a) Norepinephrine
~~b)~~ Dopamine
c) Serotonin
d) Acetyl choline
- 7) Which of the following neuron forms synaptic junctions with intrafusal fibers within the muscle spindles?
a) Alpha motor neurons
b) Pyramidal neurons
~~c)~~ Gamma motor neurons
d) Granule cells
- 8) Which of the following is the correct Broadmann number for the primary motor cortex?
a) 6
b) 5
~~c)~~ 4
~~d)~~ 3
- 9) Blobs of visual cortex are associated with
a) Color processing
b) Orientation
~~c)~~ Saccadic eye movements
d) Light perception
- 10) If red and green cones are stimulated equally, colour observed is
a) Red
b) Green
~~c)~~ Yellow
d) Purple
- 11) Medial geniculate body is related with
a) Vision
~~b)~~ Hearing
c) Smell
d) Taste
- 12) The physiological basis for 'phantom limb' is
a) Muller's law and Bell Magendie law
b) Doctrine of specific nerve energies
~~c)~~ Muller's law and Law of Projection
d) Bell Magendie law and Law of Projection

Contd ...

MCQ'S PREVIOUS PAPERS

:: B-3 ::

- 13) Hypocalcemia is caused due to
 - a) Thyroxine
 - b) Parathormone
 - c) Cholecalciferol
 - d) Calcitonin
- 14) Angiotensin is produced in
 - a) Liver
 - b) Kidney
 - c) Hypothalamus
 - d) Lungs
- 15) Melatonin is secreted from
 - a) Hypothalamus
 - b) Pineal gland
 - c) Adrenal cortex
 - d) Melanocytes
- 16) Hypoglycemic hormone is
 - a) Catecholamine
 - b) Somatostatin
 - c) Cortisol
 - d) Insulin
- 17) Estrogen is not produced by
 - a) Pituitary
 - b) Ovary
 - c) Adrenal Cortex
 - d) Placenta
- 18) Elasticity of cervical mucus is seen in:
 - a) Proliferative stage
 - b) Luteal stage
 - c) Midcycle
 - d) Menstruation
- 19) Mid cycle rise of basal body temperature is due to
 - a) LH
 - b) FSH
 - c) Estrogen
 - d) Progesterone
- 20) Most powerful vasopressor is
 - a) Renin
 - b) Angiotensin II
 - c) Aldosterone
 - d) Cortisol

MCQ'S PREVIOUS PAPERS

SET-B

PHYSIOLOGY - II

S.NO.	KEY ANSWER
1)	C
2)	A
3)	D
4)	A
5)	D
6)	D
7)	C
8)	C
9)	A
10)	C
11)	B
12)	C
13)	D
14)	A
15)	B
16)	D
17)	D
18)	A
19)	D
20)	B

MCQ'S PREVIOUS PAPERS

2020 Batch (Instants)

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) All of the following are true for denervation hypersensitivity EXCEPT
 - a. Plasma Noradrenaline level decreases in noradrenergic neuron denervation
 - b. Plasma Ach level decreases in cholinergic neuron denervation
 - c. Seen in smooth muscles
 - d. The Ach receptors appear all over sarcolemma
- 2) The density of Na^+ channels is maximum at
 - a. Soma
 - b. Nodes of Ranvier
 - c. Dendrite
 - d. Surface of myelin
- 3) The length of muscle at which it develops maximal isometric active tension is called
 - a. Maximum length
 - b. Active length
 - c. Initial length
 - d. Resting length
- 4) Action potential
 - a. Requires subthreshold stimulus
 - b. Does not show All or none phenomenon
 - c. Does not show decremental response
 - d. Can be summated
- 5) Ovulation in a woman with normal health and cycle, occurs at
 - a. Just after corpus luteal maturation
 - b. During progesterone rise
 - c. 14 days prior to start of menstrual bleeding
 - d. Just before LH surge
- 6) Most distinguishing feature between skeletal muscle and smooth muscle is
 - a. Tropomyosin
 - b. Myosin
 - c. Actin
 - d. Troponin

MCQ'S PREVIOUS PAPERS

- 7) Which of the following is not true about cardiovascular maternal changes in pregnancy
- a. Systolic pressure increases
 - b. Heart rate increases
 - c. Stroke volume increases
 - d. Diastolic pressure increases
- 8) Which of the following is not true about testes
- a. Present in scrotal sac to have temperature less than body temperature
 - b. Contraction of dartos muscle elevates testes
 - c. Pampiniform plexus of blood vessels have counter current system to maintain temperature of testis
 - d. Spermatic arteries supplying blood to testes originate from internal iliac artery
- 9) Which cell in CNS lay myelin sheath
- a. Stellate cells
 - b. Astrocytes
 - c. Basket cells
 - d. Oligodendrocytes
- 10) Which of the following is the main hormone for milk synthesis and secretion
- a. Progesterone
 - b. Estrogen
 - c. Oxytocin
 - d. Prolactin
- 11) The dorsal root of spinal cord is sensory and ventral root is motor.
This is called:
- a. Rexed laminar principle
 - b. Weber-Fechner law
 - c. Muller's doctrine of nerve energy
 - d. Bell-Magendie law
- 12) Which is the best female contraceptive method after child birth,
but desirous of further deliveries
- a. Tubectomy
 - b. Diaphragms
 - c. Intrauterine Device
 - d. Oral Contraceptive Pills

MCQ'S PREVIOUS PAPERS

- 13) Which of the following is the major neurotransmitter in nigrostriatal pathway
a. Noradrenaline
b. Acetylcholine
c. Serotonin
d. Dopamine ✓
- 14) Which of the following is the specific nucleus of thalamus
a. Ventral posterolateral ✓
b. Midline ✓
c. Intralaminar
d. Centro median
- 15) Purkinje cells from the cerebellum end on
a. Cerebral cortex
b. Extrapyramidal system ✓
c. Cranial nerve nuclei
d. Deep cerebellar nuclei
- 16) Which of the following is not true about stretch reflex
a. Also called myotatic reflex
b. Afferent is Ib fiber ✓
c. Monosynaptic reflex
d. A branch of afferent terminates on inhibitory interneuron
- 17) The nucleus involved in formation of Papez circuit is
a. Pulvinar
b. Anterior nucleus of thalamus ✓
c. Intralaminar ✓
d. VPL nucleus
- 18) Which of the following is not a component of vestibular apparatus
a. Utricle
b. Saccule
c. Cochlea ✓
d. Semicircular canal ✓
- 19) The processing of short term memory to long term memory is done (consolidation of long term memory occurs) in:
a. Prefrontal cortex
b. Hippocampus ✓
c. Neocortex ✓
d. Amygdala
- 20) All except one are under the control of hypothalamus
a. Increase in heart rate during exercise ✓
b. Food intake
c. Pituitary hormone (hypophyseal) regulation
d. Temperature regulation

MCQ'S PREVIOUS PAPERS

1st MBBS (PHYSIOLOGY) - NR (Paper-II) - MAY- 2022

C

S.NO.	KEY ANSWER
1)	A
2)	D
3)	D
4)	C
5)	C
6)	D
7)	D
8)	D
9)	D
10)	D
11)	D
12)	C
13)	D
14)	A
15)	D
16)	B
17)	B
18)	C
19)	B
20)	A

MCQ'S PREVIOUS PAPERS

2020 BATCH (REGULAR)

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

MCQ'S PREVIOUS PAPERS

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

Contd ... 3

MCQ'S PREVIOUS PAPERS

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

MCQ'S PREVIOUS PAPERS

1st MBBS (PHYSIOLOGY) - NR (Paper-II) - JANUARY – 2022

A

S.NO.	KEY ANSWER
1)	C
2)	A
3)	D
4)	B
5)	C
6)	D
7)	A
8)	B
9)	B
10)	A
11)	D
12)	C
13)	C
14)	C
15)	A
16)	A
17)	B
18)	D
19)	D
20)	C

MCQ'S PREVIOUS PAPERS

PAPER CODE: MB2019106
KALOJI NARAYANA RAO UNIVERSITY OF HEALTH SCIENCES
WARANGAL, TELANGANA STATE - 506 002
MBBS FIRST YEAR EXAMINATIONS: NOVEMBER, 2023
PHYSIOLOGY (New Regulation)
PAPER - II

Max Marks: 100

Time: 3 Hours

Note: Answer all questions

Draw diagrams whenever necessary with Black Ball point pen /HB pencil /any dark
Colour pencil

Multiple Choice Questions:

10 X 1 = 10

1. Contractile unit of muscle is the portion of myofibril between:
 - a) A and H band
 - b) Z line and A band
 - c) Two adjacent Z lines
 - d) A and I band
 2. An example for multi-unit (non syncytial) smooth muscle is:
 - a) Stomach
 - b) Uterine myometrium
 - c) Iris
 - d) Ureters
 3. The inhibitory amino acid neurotransmitters in the CNS are:
 - a) Glutamate and glycine
 - b) Glutamate and aspartate
 - c) GABA and glycine
 - d) Aspartate and glycine
 4. Which of the following is the correct Brodmann's number designation for the primary motor cortex.
 - a) 6
 - b) 3
 - c) 4
 - d) 1
 5. The ability to detect two points simultaneously applied to the skin is based on which of the following physiologic mechanisms.
 - a) Presynaptic inhibition
 - b) Lateral inhibition
 - c) Medial inhibition
 - d) Feed-forward inhibition
- A 45-year-old woman reported with diminished hearing in the right ear for the last 2 years, Rinne's test (without masking) is negative on the right ear and positive on the left side.
- With the Weber's test, the tone is perceived as louder in the left ear. Which of the following is most likely.
- a) Conduction loss in the right ear
 - b) Sensorineural hearing loss in the right ear
 - c) Sensorineural hearing loss in the left ear
 - d) Conduction loss in the left ear
6. Pheochromocytomas predominantly secrete
- a) Epinephrine
 - b) Norepinephrine
 - c) Both epinephrine and norepinephrine
 - d) Dopamine
7. Not a feature of Sertoli cell:
- a) Nourish sperms and control their release
 - b) Provide blood testis barrier
 - c) Secrete testosterone
 - d) Secrete inhibin
8. A 30-year-old woman is breast feeding her infant during suckling reflex, which of the following hormonal responses is expected.
- a) Increased secretion of antidiuretic hormone (ADH) from the supraoptic nuclei
 - b) Increased secretion of ADH from the paraventricular nuclei
 - c) Increased secretion of oxytocin from the paraventricular nuclei
 - d) Decreased secretion of neuropeptides
9. The HCG is first measured in the blood
- a) 8 to 9 days after ovulation
 - b) 8 to 9 days after fertilization of ovum
 - c) At 10-12 weeks of pregnancy
 - d) At 8 weeks of pregnancy

MCQ'S PREVIOUS PAPERS