

MBBS I (First) Professional Examination 2018-19

Course Code: MBS102 Paper ID: 03219137

Physiology -II

Time: 2 Hours 40 Minutes Max Marks: 40 Note: Attempt all questions. Draw proper diagrams to support your answer.

Part 'B'

- Define lactation. Describe the hormones concerned with development of breast during pregnancy and lactation. (7)
- Write short notes on the following:

Muscle Spindle

- b) Transport across neuromuscular junction
- Name the receptors for pain. Describe fast and slow pain 3.
- Write short notes on:

(4+4)

- a) Errors of refraction
- b) Describe the Ionic basis of action potential
- What is the normal serum calcium level? Describe the hormonal regulation of serum calcium. What are the clinical features of tetany?

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Roll No.		Student's Name
Student's Signature	6	Invigilator's Signature
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Part 'A'

Time: 20 Minutes Max Marks: 10

- Note: 1. Attempt all questions and return this part of the question paper to the invigilator after 20 Minutes.
 - 2. Please tick $(\sqrt{)}$ correct one only. Cutting, overwriting or any other marking are not allowed. 3. For answering please use Ball- pen only.



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Firstanker's choice

2.2 Proposition of the site of origin in motor

neurons of conducted impulses is the:

- Dendritic zone
- Axon hillock b.
- Node of Ranvier
- Terminal button
- O.3 The muscle spindle is not innervated by: a) $A\alpha$ fibers

 - Ay fibers b)
 - Ia fibers c)
 - d) II fibers
- Insulin is secreted from: 0.4.
 - a) a cell
- ß cell b)
- δ cell None c)
- Q.5 Which of the following inhibits lactation:
 - a) Prolactin b) Chorionic somatomammotropin
 - Estrogen and progesterone c)
 - d) Growth hormone
- 0.6 Which one is not a feature of Diabetes mellitus?
 - a) Polyuria
 - b) Hypertension
 - c) Polyphagia
 - d) Polydypsia
- Weber's test is applied to test:
 - Sense of smell
 - b) Sense of hearing
 - c) Visual acuity
 - Sense of equilibrium d)
- Axons of ganglion cells in the retina terminate in:
 - a) lateral geniculate nucleus
 - b) pretectal nucleus
 - suprachiasmatic nucleus c)
 - d) all of the above
 - d) Can be corrected by cylindrical lenses
- Q.17 Sertoli cells produce:
 - Estrogen
 - b) DHEA
 - Mullerian inhibiting polypeptide c)
 - d) TSH
- Q.18 Middle ear contains:
 - Endolymph
 - b) Perilymph Organ of corti c)
 - Ossicles d)
- Q.19 Hypothalamus does not play a prominent role in the regulation of:
 - Food and water intake
 - Temperature b)
 - Respiration c)
 - d) Osmolality
- Q.20 Most of the circulating T4 is bound to:
 - Prealbumin a)
 - b) Albumin
 - www.FirstRanker.com Thyroxine-binding globulin c)
 - d) None of the above

Q.10 Which of the following is the best example www.FirstRanker.com www.FirstRanker.com

Spatiotemporal relations

- a) Stretch reflex
- b) Axon reflex
- c) Inverse stretch reflex
- Withdrawal reflex d)
- P.T.O.
- Q.11 Rhodopsin has peak sensitivity to light at a Wave length of:
 - 405 nm a)

 - 505 nm b) c) 605 nm
 - 705 nm d)
- Q.12 The gate theory of pain was proposed by:
 - Cannon and Bard a)
 - b) Charles Sherrington
 - Wall and Melzack c)
 - d) Weber and Fechner
- Q.13 JAK-STAT pathways mediate the effects of:

 - a) transducin b) aguaporins
 - c) gusducins
 - growth hormone
- Q.14 Normally, the thyroid gland secretes:
 - ĆGRP a)
 - b) PTH related peptide
 - c)
 - d) Calcitonin
- Q.15 Inner hair cells in the organ of Corti are depolarized by:
 - K+ influx a)
 - b) Na+ influx
 - Ca+ influx
 - Closure of K+ channels d)
- Q.16 Colour blindness:
 - Is a Genetic disorder involving X a)
 - chromosomes Is a Genetic disorder involving Y b)
 - chromosomes Affects females only

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