

MBBS I (First) Professional Examination 2017-18
Course Code: MBS102

Paper ID: 0322137

Physiology -II
Time: 2 Hours 40 Minutes

Max Marks: 40

Note: Attempt all questions. Draw proper diagrams to support your answer.

Part 'B'

1. Explain the cause & symptoms of diabetes mellitus. Add a note on its management. (10)
2. Write short notes on the following: (5x3=15)
 - a) Cushing's Syndrome
 - b) Blood-Testis barrier
 - c) Oral Contraceptives
3. Discuss briefly: (5x3=15)
 - a) Genesis of Resting Membrane Potential
 - b) Brown -Sequard Syndrome
 - c) Errors of Refraction

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Roll No.

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Student's Signature

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Student's Name

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Invigilator's Signature

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Course Code: MBS102

Physiology - II
Paper ID: 0322137

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 (✓) correct one only. Cutting, overwriting or any other marking are not allowed.
 3. For answering please use Ball- pen only.

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| <p>Q.1 The following are the glial cells EXCEPT:</p> <ol style="list-style-type: none"> a) Pyramidal Cells b) Microglia c) Oligodendrocytes d) Astrocytes | <p>Q.6 Following are the components of reflex arc EXCEPT:</p> <ol style="list-style-type: none"> a) Receptor b) Centre c) Effector organ d) Astrocyte |
| <p>Q.2 Neurotransmitter is released at the neuromuscular junction due to:</p> <ol style="list-style-type: none"> a. Entry of Calcium b. Entry of Sodium c. Entry of Potassium. d. Exist of Calcium | <p>Q.7 The structure in the ear responsible for maintenance of balance is:</p> <ol style="list-style-type: none"> a) Cochlea b) Cerebral cortex c) Medulla d) Cerebellum |
| <p>Q.3 All or None law is applicable to the following EXCEPT:</p> <ol style="list-style-type: none"> a) A motor nerve fibre b) A single skeletal muscle fibre c) Entire cardiac muscle d) A bundle of skeletal muscle fibre | <p>Q.8 The following is slowly adapting receptor:</p> <ol style="list-style-type: none"> a) Touch b) Pain c) Temperature d) Pressure |
| <p>Q.4 End-plate has the following characteristics EXCEPT:</p> <ol style="list-style-type: none"> a. It is graded b. It is nonpropagated c. It has no latency d. It is propagated | <p>Q.9 The color of the eye is due to:</p> <ol style="list-style-type: none"> a) Cornea b) Iris c) Choroid d) Retina |
| <p>Q.5 The process of degeneration of peripheral nerve distal to the site of injury is termed:</p> <ol style="list-style-type: none"> a) Staling's degeneration b) Marey's degeneration c) Wallerian degeneration d) Brodmann's degeneration | <p>Q.10 The normal intraocular pressure is:</p> <ol style="list-style-type: none"> a) 0-15 mm Hg b) 5-6 mm Hg c) 10-20 mm Hg d) 10-20 cm Hg |

P.T.O.

- Q.11 Opacity of the lens is:
a) Cataract
b) Myopia
c) Hypermetropia
d) Astigmatism
- Q.12 Lesion of the optic nerve causes:
a) Blindness in the same eye
b) Blindness in the opposite eye
c) Bitemporal hemianopia
d) Homonymous hemianopia
- Q.13 The auditory receptors are present on:
a) Basilar membrane
b) Reissner's membrane
c) Tectorial membrane
d) Secondary tympanic membrane
- Q.14 Tympanic reflex helps in:
a) Protecting auditory receptors
b) Amplifying sound
c) Equalizing the pressure
d) Transmission of sound
- Q.15 The part of eye which is not a part of refracting surface is:
a) Cornea
b) aqueous humor
c) Lens
d) Iris
- Q.16 Ringing in the ear is called:
a) Presbycusis
b) Deafness
c) Tinnitus
d) Giddness
- Q.17 The regulation of thyroid hormone secretion is an example for:
a) Positive feedback
b) Negative feedback
c) Bio feedback
d) Down-regulation
- Q.18 Receptors for protein hormones are located in:
a) Cell membrane
b) Cytoplasm
c) Nucleus
d) Endoplasmic reticulum
- Q.19 The hypothalamic nucleus that secretes thyrotropin-releasing hormone (TRH) is:
a) Paraventricular nucleus
b) Arcuate nucleus
c) Anterior periventricular nucleus
d) Supraoptic
- Q.20 Decreased secretion of growth hormone leads to:
a) Cretinism
b) Dwarfism
c) Acromegaly
d) Gigantism