

10-11-2023

I-MBBS

01112A1+01112A2

(This question paper consists of 2 pages)

First M.B.B.S. (New Scheme) (Main) Examination**November - 2023****PHYSIOLOGY****Paper- I****Time: Three Hours****Maximum Marks: 100**

Attempt all questions in both sections.

(Use separate answer book for each section)

Section-A**1. Fill in the blanks:****6x1=06**

- a) The coupling ratio for sodium potassium pump is _____
- b) Initiation of action potential occur at _____ of neuron.
- c) Melatonin is secreted by _____
- d) Cells responsible for nourishment of sperm _____
- e) ECG rhythm having lowest frequency is _____
- f) In an isotonic contraction of muscle _____ remain same.

2. Choose the correct option in the following multiple choice questions:**i) Strongest stimulation for ADH secretion is:**

- a) Hypersomolarity
- b) Hyponatremia
- c) Hypotension
- d) Hypovolemia

ii) Conscious proprioception is carried by:

- a) Dorsal column
- b) Anterior spinothalamic tract
- c) Lateral spinothalamic tract
- d) Vestibular tract

iii) Binasal Hemianopia occurs when the lesion is present in:

- a) Right optic nerve
- b) Optic Chiasma
- c) Temporal retina
- d) Left geniculocalcarine tract

iv) Which body muscle can resist fatigue?

- a) Skeletal muscle
- b) Cardiac muscle
- c) Smooth muscle
- d) Both a & b

3. A 35-year-old female is taking oral pills to avoid conception. She missed doses of pills for two successive days. 3 x 5 = 15

- a) What precautions should she take in this situation to avoid conception?
- b) What are the various contraceptive methods in female?
- c) Explain mechanism of action of oral contraceptive pills.

4. Write short notes on (Any five):

5x2=10

- a) Excitation contraction coupling

- b) Diabetes insipidus
- c) Gate control theory of pain
- d) REM Sleep
- e) Organ of Corti
- f) Law of projection

5. Explain briefly (Any three):**3x5=15**

- a) Muscle spindle
- b) Circadian rhythm
- c) Motor aphasia
- d) Conditioned reflex

Section-B

6. Name parts of Basal ganglia. Describe causes, features and treatment of Parkinsonism.

20

7. What will happen and why? (Any five):**5x2=10**

- a) An individual who sleeps with their arm under their head for a long period.
- b) To gain sensation after local rubbing.
- c) To ovulation during breastfeeding.
- d) To a person's vision when he enters into a cinema hall.
- e) To color of skin in primary adrenal insufficiency.
- f) To eye muscle in myasthenia gravis.

8. Explain briefly (Any four):**4x5=20**

- a) Secondary active transport
- b) Menstrual Cycle
- c) Adrenogenital syndrome
- d) Visual pathway
- e) Goitre

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