

RUHS

First Year MBBS Examination

I MBBS PHYSIOLOGY PAPER I

Time: 3 hours Max Marks: 100

Instructions: INSTRUCTIONS: Attempt all questions in both sections: (Use separate answer book for each section)

Section 1

1. Fill in the blanks: (6)
 - 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: (4)
 - a. Strongest stimulations for ADH secretion is:

a) Hyperosmolarity b) Hyponatremia c)

Hypotension d) Hypovolemia

- b. Conscious proprioception is carried by: a) Dorsal column b) Anterior spinothalamic tract c) Lateral spinothalamic tract d) Vestibular tract
 - c. Binasal Hemianopia occurs when the lesion is present in: a) Right optic nerve b) Optic Chiasma c) Temporal retina d) Left geniculocalcarine tract
 - d. 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.
- a. What precautions should she take in this situation to avoid conception? (15)
 - 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): (10)
- a. Excitation contraction coupling
 - b. Diabetes insipidus
 - c. Gate control theory of pain
 - d. REM Sleep
 - e. Organic of corti
 - f. Law of projection
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5. Explain briefly (Any three): (15)

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

Section 2

1. Name parts of Basal ganglia. Describe causes, features and treatment of Parkinsonism. (20)

2. What will happen and why? (Any five): (10)

- a. An individuals who sleep with their arm under their head for long period.
- b. To pain sensation after local rubbing.
- c. To ovulation during breast feeding.
- d. To a person's vision when he enters into a cinema hall.
- e. To colour of skin in primary adrenal insufficiency.
- f. To eye muscle in myasthenia gravis.

3. Explain briefly (Any four): (20)

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

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