

RUHS

First Year MBBS Examination

I MBBS PHYSIOLOGY PAPER I

Date: 04-07-2019

Time: 3 hours

Max Marks: 50

INSTRUCTIONS: 1. Que. No.1 and 5 in section A and B are compulsory. Attempt ANY TWO questions from rest of the questions in each section. 2. Use separate answer sheet for each section.

Section 1

1. What will happen and why? (10)

- a. Deficiency of thyroid hormone infants
- b. Deep reflexes in lower motor neuron lesion
- c. Vision in old age person
- d. Deficiency of progesterone during pregnancy
- e. Antibodies against nicotinic acetylcholine receptors in neuromuscular junction

2. Describe: (8)

- a. Functions of Hypothalamus (A.857) (8.739) (C2-1007)
 - b. Regulation of blood glucose level and its applied physiology.
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3. Explain with the help of diagram: (8)

- a. Pathway of stereognosis
- b. Action potential of nerve fibre (C1-41)

4. Write notes on following: (8)

- a. Properties of synapse (C2-865)
- b. Memory consolidation

Section 2

5. Mention difference between (any two): (8)

- a. Ovarian cycle and uterine cycle
- b. Excitation - contraction coupling and excitation-secretion coupling
- c. Myopia and Hypermetropia (C2-1105)

6. Draw labelled diagram of the following (any two): (8)

- a. Waves of EEG
- b. Muscles spindle and stretch reflex pathway (A.945) (8.822)(C-881)
- c. Pathway of hearing.

7. Describe: (8)

- a. Functions of basal ganglia (C2-996)
- b. Hormones regulating calcium homeostasis

8. Write short notes on: (8)

- a. Functions of cerebellum (A.870+872+874)
(C2-972)
- b. Aphasia

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