

Date: 10-08-2019

C 2744

## **First Year MBBS Examination**

### **I MBBS Physiology Paper 2**

Time: 3 hours Max Marks: 50

**Instructions:** 1. Answer to the points. 2. Figure to the right indicates marks. 3. Use separate answer books for each section. 4. Draw diagrams wherever necessary. 5. Write legibly.

#### **Section 1**

**1.Explain in detail: (Any Two out of Three) (10)**

- a. Discuss the physiological actions of Growth Hormone. Add a note on Gigantism.
- b. What is spermatogenesis? Discuss factors affecting spermatogenesis.
- c. Enumerate adrenocorticotrophic hormones. Discuss physiological actions of cortisol.

**2A.Write briefly: (Any Two out of Three) (6)**

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- ~~a. What is GFR? Write its normal value and~~

factors affecting it.

- b. Draw a well labeled diagram of counter current mechanism in kidney.
- c. Discuss the functions of skin and its constituents.

## **2B. Write in brief(Any One) (3)**

- a. Accomodation reflex. Discuss pathway in brief.
- b. Attenuation reflex: Physiological Importance.

## **3. Write briefly: (Any Two out of Three) (6)**

- a. What are different taste modalities? Draw diagram of taste pathway.
- b. Enumerate Theories of color vision and write briefly about Young Helmholtz Theory.
- c. What is visual acuity? Give its physiological basis.

## **Section 2**

## **4. Explain in detail: (Any Two out of Three) (10)**

- a. Describe connections and functions of Basal Ganglia.

- b. What is receptor? Enumerate its properties and write about receptor potential.
- c. Enumerate nuclei of hypothalamus. Discuss functions of hypothalamus.

**5A. Write briefly: (Any Two out of Three) (6)**

- a. Differentiate between Upper and Lower motor neuron
- b. What is sleep? Write its stages and add a note on REM sleep,
- c. What are types of Aphasias? Describe Motor aphasia with well labeled diagram.

**5B. Write briefly on: (Any One out of Two) (3)**

- a. Inverse stretch reflex
- b. Electrical synapse.

**6. Answer briefly in one-two sentences (Any Six out of Ten) (6)**

- a. Rubbing the painful area often relieves the pain. Why?
- b. What is motor Unit?
- c. What is Aldosterone escape?
- d. What is myopia?

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- e. Give two functions of testosterone.

- f. What is Phantom Limb?
- g. Enumerate the waveforms in EEG.
- h. Enumerate types of memory
- i. Enumerate two functions of middle ear.
- j. What is rigidity?

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