

Date: 12-08-2014

KCB 8414

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) (10)
 - a. Describe stages of spermatogenesis (A.476) (8.637)
 - b. Cushing syndrome (A.452) (8.593)
 - c. Myopia: Definition, explain causes and its correction

2A. Write brief notes on (any two) (6)

- a. Describe the pathway of Taste Sensation (A.1061) (8.947)

b. Mechanism of action of peptide Hormones

c. Functions of Insulin

28. Write brief on (any one) (3)

- a. Describe Olfactory pathway (A.1049) (8.943)
- b. Describe different temporary method of contraception

3. Give brief on (any two) (6)

- a. Actions of Thyroxin (A.391) (B.524)
- b. Arginine Vasopressin (AVP) (A.382) (8.546)
- c. Calcium Homeostasis

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Section 2

1. Explain in detail (any two) (10)
 - a. Enumerate various descending tracts in the spinal cord. Write in detail about 'pyramidal tracts. Giving its course and functions
 - b. Write in detail about physiology of pain giving its components, pathway & neurotransmitters involved. Write a note on analgesia system of body
 - c. Write in detail about physiology of sleep giving its stages & correlating it with EEG (Electroencephalogram)

5A. Write briefly on (any two) (6)

- a. Classification of nerve fibers (A.765) (8.58)
- b. Types and properties of sensory receptors (A.809) (8.797)
- c. Compositions and functions of 'limbic system'.

58. Write briefly on (any one) (3)

- a. Functions of muscle spindle (A.945) (8.822)
- b. Types and physiological basis of memory (A.939) (8.877)

6. Short objective type: (6)

- a. Name one inhibitory neurotransmitter found in CNS.
- b. Name one hormone secreted by posterior pituitary
- c. What is drug of choice for the treatment of Parkinson Disease? (A.918) (8.738)
- d. A person after the age of forty years is unable to read the small prints. Name the error of refraction. (A.1040) (8.912)
- e. Brodmann's area number is for primary visual cortex
- f. What is cause of Cretinism? (A.412) (8.558)
- g. The normal plasma calcium level is.....
- h. Testosterone is mainly secreted by which cells in human males?
- i. What is the cause of Levi-Lorrain dwarf?
- j. A person is able to speak fluently but it is meaningless Name the type of aphasia.
