

**Madhya Pradesh Medical Science University,
Jabalpur
MBBS First Professional Examination 2017
Summer
Subject- Physiology
Paper- II**

Time: 3:00 Hours

Maximum Marks: 50

Instructions: a) All questions are compulsory b) Draw diagrams wherever necessary c) Answers of Questions and Sub-questions must be written strictly according to serial order of question paper. d) Do not write anything on the blank portion of question paper, if written anything such type of act will be considered as an attempt to resort to unfair means.

Q1. Long Answer questions

- Enumerate hormones involved in regulation of plasma calcium and phosphorus metabolism. Describe the physiological actions of parathyroid hormone $2 \times 5 = 10$
- Describe spermatogenesis. Write the changes occurring at puberty in human male and female

Q2. Short Answer Questions

- Enumerate functions of hypothalamus $10 \times 3 = 30$
 - Role of middle ear in hearing
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- c. Sarcomere
- d. Color vision and its defects
- e. Describe physiological actions of insulin
- f. Taste sensation
- g. Brown Sequard syndrome
- h. Classical conditioning
- i. Staircase phenomenon in skeletal muscle
- j. Parkinson's disease

Q3. Very Short Answer Questions

- a. Name the hormones affecting food intake 10 x 1 = 10
- b. Luteinizing hormone (LH) surge
- c. Define visual acuity
- d. Functions of skin
- e. Troponin
- f. Name different EEG waves and write their normal frequency range
- g. Melatonin
- h. Define isometric and isotonic muscle contraction
- i. Core body temperature
- j. Upper motor neuron paralysis

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