



Madhya Pradesh Medical Science University, Jabalpur
MBBS 1st Professional Examination 2017(summer)
Question Paper Code - 17AM0000100552
Physiology - Paper 2

Time : 3:0 Hours
Maximum Marks: 50
Note:

Instructions:

- 1) All questions are compulsory
- 2) Draw diagrams wherever necessary.
- 3) Answers of Questions and Sub-questions must be written strictly according to the serial order of question paper, otherwise the question shall not be valued.
- 4) Do not write anything on the blank portion of the question paper. If written anything, such type of act will be considered as an attempt to resort to unfair means.

Q.1 Long Answer Question
2 x 5 = 10

- A) Enumerate hormones involved in regulation of plasma calcium and phosphorous metabolism. Describe the physiological actions of parathyroid hormone.
- B) Describe spermatogenesis. Write the changes occurring at puberty in human male and female.

Q.2 Write Short Notes
10 x 3 = 30

- A) Enumerate functions of hypothalamus
- B) Role of middle ear in hearing
- 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 contraction
- J) Parkinson's disease

Q.3 Write Short Notes
10 X 1 = 10

- A) Name the hormones affecting food intake
- B) Luteinizing hormone (LH) surge
- C) Define visual acuity. Enumerate factors affecting 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