

**Madhya Pradesh Medical Science University,
Jabalpur
MBBS First Professional Examination Aug-2019
Subject- Physiology
Paper- II**

Time: 3:00 Hours

Maximum Marks :50

- 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 2 x 5 = 10

- a. A 55 years old male had attended OPD. His wife explained the complaints of her husband as his speech was slurred and there was impaired coordination of movements as well as unsteady gait but no resting tremors
- i. What will be the diagnosis
 - ii. Name two tests in support of diagnosis
 - iii. Functions of cerebellum
- b. Describe mechanism of hearing
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Q2. Short Answer Questions 10 x 3 = 30

- a. Muscle spindle
- b. Functions of thyroxine
- C. Response of vestibular apparatus for linear and rotational acceleration
- d. Excitation contraction coupling
- e. Regulation of blood sugar. Add a note on C peptide
- f. Synthesis of steroid hormone
- g. Placental hormones
- h. Discuss the effect of oral contraceptive pills on ovarian function
- i. What are the functions of Sertoli cells
- j. Define memory. What are the types of memory

Q3. Very Short Answer Questions 10 x 1 = 10

- a. Difference between heat exhaustion and heat stroke
 - b. Astereognosis
 - C. Generator potential
 - d. Stapedial reflex
 - e. Test of ovulation
 - f. Motor unit
 - g. Skin circulation
 - h. Evoked potential
 - i. EMG
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