

**Madhya Pradesh Medical Science University,  
Jabalpur  
MBBS First Professional Examination Aug-Sep  
2016  
Subject- Physiology  
Paper- II**

Time: 3 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**

a. A 45-year-old woman has come to the hospital OPD with complaints of weight loss, increased heart rate, and heat intolerance. Answer the following questions.

i. Name the clinical condition (0.5)

ii. Explain the physiological basis of the above findings (3.5)

iii. Describe the rationale of management

b. Describe functional divisions of cerebellum and their related functions 10 x 3 = 30

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## Q2. Short Answer Questions

- a. Synaptic inhibition
- b. Auditory pathway
- c. Functions of thalamus
- d. Osteoporosis
- e. Regulation of body temperature in hot weather
- f. Conditioned learning
- g. REM sleep
- h. Effects of lesions on pyramidal tract at level of internal capsule
- i. Color vision
- j. Cushing's syndrome

## Q3. Very Short Answer Questions

- a. Define reflex arc
- b. The basic defect in astigmatism and its correction
- c. Rigor mortis
- d. Motor unit
- e. Parosmia
- f. What is Bell-Megendie law
- g. Dysdiadochokinesia
- h. Enumerate four functions of reticular activating system
- i. Functions of Sertoli cell
- j. ~~Once a month oral contraceptive pills  $10 \times 1 = 10$~~

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