

**Madhya Pradesh Medical Science University (MPMSU)****1st Professional MBBS Examination****Paper Code: 17BM0000100552****Winter 2018****Physiology Paper- II**

Time 3 Hours

Max. Marks: 50

1. All Questions are Compulsory
2. Draw diagrams whenever 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 to 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.

Q1. Long Answer Question**5x2=10**

- a. A female patient of 40 years of age came to OPD with complain of weight gain, fatigue, hair loss, constipation, intolerance to cold. On examination she has slow pulse rate, cold extremities and delayed tender reflexes. On the basis of above given data, answer the following questions: -
 - a. What is your clinical diagnosis of the patient?
 - b. Explain the physiological basis of clinical condition.
 - c. What investigation would you advice?
- b. Enumerate functional areas of cerebral cortex. Describe the major functions of general sensory?

Q2. Short Answer Question**10x3=30**

- a. Neuromuscular Function
- b. Muscle spindle
- c. Bitemporal Hemianopia





- d. Mechanism of loss of heat from body
- e. Functions of oxytocin
- f. Functions of cerebellum
- g. Ovarian Cycle
- h. Classical conditioning
- i. Functions of Hypothalamus
- j. Physiological action of Insulin

Q2. Very Short Answer Question

10x1=10

- a. Melatonin
- b. Reflex arc
- c. Define Circadian Rhythm
- d. Receptors (Define)
- e. Name the Important Basal Ganglia
- f. Enumerate Hormones from anterior pituitary gland
- g. Name different EEG waves and write their normal frequency
- h. Sarcomere
- i. Enumerate hormones involved in regulation of plasma calcium level
- j. Define isometric and isotonic muscle contraction
