

**Madhya Pradesh Medical Science University,
Jabalpur
MBBS First Professional Examination 2018
Subject- Physiology
Paper-II**

Time: 3 Hours

Max. 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

a. Describe functions of cerebellum. Add note on cerebellar ataxia 2 x 5 = 10

b. A female obese patient 46 years of age attended OPD with complaints of excessive hunger, thirst, urination and weakness. On the basis of above symptoms answer the following questions

i. Probable diagnosis of the condition

ii. Investigation to confirm the diagnosis

iii. Underlying physiological mechanism of the diagnosed disease

Q2. Short Answer Questions

- a. What is a synapse? What are the properties of synapses
- b. Describe the process of pain sensation. Add a note in referred pain
- c. Discuss the learning process
- d. Functional anatomy of basal ganglia. Describe its connections in brief
- e. Defects of image forming mechanism of eye (errors of refraction)
- f. Draw a labeled diagram of organ of corti
- g. Ovarian changes in menstrual cycle
- h. Describe in brief spermatogenesis and its regulation
- i. Describe the role of muscle spindle in maintenance of skeletal muscle tone
- j. Describe the basis of Erlanger and Gasser's classification of nerve fibers 10 x 3 = 30

Q3. Very Short Answer Questions

- a. Myasthenia gravis
 - b. Role of hypothalamic axis
 - c. Physiological basis of use of estrogen as oral contraceptive pill
 - d. Consensual light reflex
-

- e. Visual evoked potential (VEP)
 - f. Enumerate hormones of adrenal cortex
 - g. Type of taste
 - h. Define chronaxie and rheobase
 - i. Enumerate modes of heat transfer
 - j. Importance of countercurrent blood flow in skin
- $10 \times 1 = 10$

www.FirstRanker.com

www.FirstRanker.com