

15M00A04

Madhya Pradesh Medical Science University
First MBBS (Main) Examination 2015
Physiology Paper 2

Maximum Marks: 50

Time : 3 Hours

- Note (a) Attempt all questions in the same serial order.
(b) Draw well labelled diagrams wherever necessary.

- Q1 A 45 year old male has come to the hospital with complaints of excessive 5
urination, excessive thirst, excessive desire to eat and tingling and numbness in
feet. Examination shows muscle wasting. Answer the following questions on basis
of your knowledge of Physiology:
- Name the clinical condition (0.5)
 - Explain the physiological basis of the above findings (2.5)
 - Describe the blood tests which are advised to confirm diagnosis (2.0)
- Q2 Describe the mechanism of synaptic transmission. 5
- Q3 Write short notes on: 3
- Action potential in nerve. 3
 - Optic pathway and effect of lesion at different levels. 3
 - Functions of semi circular canals. 3
 - Tests of Ovulation. 3
 - Regulation of body temperature in cold weather. 3
 - Speech and language disorders. 3
 - Parkinsonism. 3
 - Effects of lesion on pyramidal tract at level of internal capsule. 3
 - Accommodation reflex. 3
 - Acromegaly.
- Q4 Write in brief: 1
- Nissle granules. 1
 - Sodium potassium pump. 1
 - Phantom limb. 1
 - Functions of sertoli cells. 1
 - Addison's disease. 1
 - Babinski's sign. 1
 - Stereognosis. 1
 - Weber's Test. 1
 - Saltatory conduction. 1
 - Mechanism of action of oral contraceptive.