

**Madhya Pradesh Medical Science University,
Jabalpur
MBBS First Professional Examination 2015
Subject- Physiology
Paper- II**

Time: 3:00 Hours

Maximum Marks :50

Instructions:

- 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 – 10 MARKS

1. a. A 45-year-old male has come to the hospital with complaints of excessive urination, excessive thirst, excessive desire to eat and tingling and numbness in feet. Examination shows muscle wasting. Answer the following questions

- i. Name the clinical condition (0.5)
 - ii. Explain the physiological basis of the above findings (2.5)
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iii. Describe the blood tests which are advised to confirm diagnosis (2)

b. Describe the mechanism of synaptic transmission 5

Q2. Short Answer Questions – 30 MARKS

a. Action potential in a nerve 3

b. Optic pathway and effect of lesion at different levels 3

c. Functions of semicircular canals 3

d. Tests of ovulation 3

e. Regulation of body temperature in cold weather 3

f. Speech and language disorders 3

g. Parkinsonism 3

h. Effects of lesions on pyramidal tract at level of internal capsule 3

i. Acromegaly 3

j. Accommodation reflex 3

Q3. Very Short Answer Questions – 10 MARKS

a. Nissle's granules 1

b. Sodium potassium pump 1

c. Phantom limb 1

d. Functions of Sertoli cells 1

e. Addison's disease 1

f. Babinski's sign 1

f. Stereognosis 1

Weber's 1

i. Saltatory conduction 1

j. Mechanism of action of oral contraceptive 1

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