



ND-2006000101020002 Seat No. _____

First Year M. B. B. S. Examination

January - 2022

Physiology : Paper - 2

Time : Hours]

[Total Marks : 80

Instruction :

નીચે દર્શાવેલ નિશાનીવાળી વિગતો ઉત્તરવહી પર અવશ્ય લખવી. Fillup strictly the details of signs on your answer book. Name of the Examination : First Year M. B. B. S. Name of the Subject : Physiology : Paper - 2 Subject Code No. : 2 0 0 6 0 0 0 1 0 1 0 2 0 0 0 2 Section No. (1, 2,...): Nil		Seat No. : <table border="1"> <tr> <td></td><td></td><td></td><td></td><td></td><td></td> </tr> </table> <div style="border: 1px solid black; height: 80px; width: 100%;"></div> Student's Signature						

Section B 40 Marks

1. A neurologist in his clinic observes a patient entering with waddling gait. On examination he finds intentional tremor and dysmetria. (1+8+1 = 10)
 - a. State the neural organ likely to be involved in the case.
 - b. Describe the various neural circuits involved in the functioning of the concerned organ.
 - c. What is ataxia.
2. Answer in short (any 5 out of 6) (5x3 = 15 marks)
 - a. Autonomic neurotransmitters and their receptors
 - b. Compare and contrast between sympathetic & parasympathetic neurons
 - c. EPSP
 - d. Composition and functions of CSF
 - e. Referred pain
 - f. Myopia
3. Short notes (any 3 out of 4) (3x5 = 15 marks)
 - a. Taste buds
 - b. Draw and label optic pathway
 - c. Functions of middle ear
 - d. Mechanism of body temperature regulation

Section C (40 Marks)

4. Write in detail about biosynthesis, actions, regulation of secretion of insulin. Write about the insulin deficiency and their complications. (2+3+3+2=10)

5. Answer in short (any 5 out of 6)

(5x3 = 15 marks)

- a. Second messenger
- b. Myxedema
- c. ADH
- d. Functions of placenta
- e. Phases of lactation
- f. Basal metabolic rate

6. Short notes (any 3 out of 4)

(3x5 = 15 marks)

- a. Calcitriol
 - b. Ovulation
 - c. Suckling reflex
 - d. Cushing disease
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