

# ND-2006000101020002 Seat No. \_\_\_\_\_

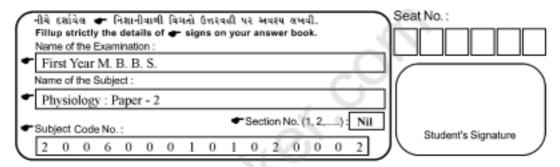
# First Year M. B. B. S. Examination

January - 2022

Physiology: Paper - 2

Time: Hours] [Total Marks: 80

#### Instruction :



Section B 40 Marks

- A neurologist in his clinic observes a patient entering with waddling gait. On examination he finds intentional tremor and dysmetria. (1+8+1 = 10)
- 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

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[Contd...

## Section C (40 Marks)

- 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. Myxedoema
- 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