

ND-2006000101020002 Seat No. _____

First Year M. B. B. S. Examination

January - 2022

Physiology : Paper - 2

Time : Hours]

[Total Marks : 80

Instruction :

Fill up 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 _____

Section No. (1, 2,): Nil

Subject Code No. :
 2 0 0 6 0 0 0 1 0 1 0 2 0 0 0 2

Student's Signature

Seat No. :

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)
- State the neural organ likely to be involved in the case.
 - Describe the various neural circuits involved in the functioning of the concerned organ.
 - What is ataxia.
2. Answer in short (any 5 out of 6) (5x3 = 15 marks)
- Autonomic neurotransmitters and their receptors
 - Compare and contrast between sympathetic & parasympathetic neurons
 - EPSP
 - Composition and functions of CSF
 - Referred pain
 - Myopia
3. Short notes (any 3 out of 4) (3x5 = 15 marks)
- Taste buds
 - Draw and label optic pathway
 - Functions of middle ear
 - Mechanism of body temperature regulation

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[Contd...

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. Myxoedema
- c. ADH
- d. Functions of placenta
- e. Phases of lactation
- f. Basal metabolic rate

6. Short notes (any 3 out of 4)

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

(3x5 = 15 marks)

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[1030]

