PHYSIOLOGY PAPER-III

Time: 3 hours PHY/D/20/36/III

Max. Marks:100

Important Instructions:

- You are provided with 5 answer sheet booklets. Each individual answer sheet booklet consists of 10 pages excluding the covering jackets.
- Answers to all the questions must be attempted within these 5 answer sheet booklets which must be later tagged together at the end of the exam.
- No additional supplementary answer sheet booklet will be provided.
- Attempt all questions in order.
- Each question carries 10 marks.
- Read the question carefully and answer to the point neatly and legibly.
- Do not leave any blank pages between two answers.
- Indicate the question number correctly for the answer in the margin space.
- Answer all the parts of a single question together.
- Start the answer to a question on a fresh page or leave adequate space between two answers.
- Draw table/diagrams/flowcharts wherever appropriate.

Write short notes on:

1.	Describe important roles played by cerebellum and basal ganglia in voluntary control of motor activities. Name the areas and mechanisms involve in the feedback of this control.	5+(3+2)
2.	Describe mode of action and regulation of insulin. What are the metabolic effects of insulin?	(3+2)+5
3.	Physiology of sleep cycle. Write a note on theories of sleep.	5+5
4.	Describe the physiology of speech. What are speech disorders?	5+5
5.	Trace pain pathway with suitable and labelled diagram. Write a note on mesencephalic descending pain suppressing pathway with its clinical importance.	5+3+2
6.	Describe Olfactory pathway with suitable diagram. Write 2 important peculiarities of this pathway.	8+2
7.	Steps and regulation of Spermatogenesis.	6+4
8.	Describe nervous regulation of endocrine system. Explain neuro-endocrine reflex with suitable examples.	5+5
9.	Describe the visual pathway in detail and discuss the various lesions of the same. Add a note on accommodation reflex.	(5+3)+2
10.	Synthesis, metabolism and functions of glucocorticoids.	2+2+6
