

PHYSIOLOGY

PAPER-IV

Time: 3 hours
Max. Marks:100

PHY/D/20/36/IV

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. Name the disorders of neuromuscular junction. Describe any one of them. 2+8
2. Describe mechanism, clinical features, physiological basis of prevention and treatment of erythroblastosis fetalis. 3+3+2+2
3. Differentiate conductive deafness and nerve deafness on the basis of Tuning fork tests and Audiometry. 5+5
4. Describe mechanism of vomiting. Describe conditions which induce vomiting. 5+5
5. Describe the various techniques used to assess the efficiency of cardiovascular functions, with emphasis on recent developments. 5+5
6. Differentiate obstructive and restrictive lung diseases on the basis of static and dynamic pulmonary function tests. 5+5
7. Describe important effects of hyposecretion and hypersecretion of thyroid hormone in the body. 5+5
8. Describe physiological basis of Electroencephalogram (EEG), characteristics of different EEG waves and EEG changes during sleep. 3+4+3
9. Describe the pathophysiology of atherosclerosis and write in brief about various measures available to reduce blood cholesterol level. 5+5
10. Clinical features & pathological/biochemical investigations, used to diagnose a case of anaemia. 5+5
