Medical Science
Paper-I

Time Allowed: Three Hours
Maximum Marks: 300

Note: 1. The figures in the margin indicate full marks for the questions.
2. Candidate should answer questions No. 1 and 5 which are compulsory and any three of the remaining questions, selecting at least one from each section.

SECTION – A

1. (a) Describe anatomy of central and peripheral autonomic nervous system.
   (b) Discuss function of Cerebellum.
   (c) Describe action and toxicity of various Vitamins. 20×3=60

2. (a) Describe blood supply of heart.
   (b) Describe glomerular and tubular functions of Kidney.
   (c) Describe Karyotyping. 20×3=60

3. Discuss the metabolism of carbohydrate. Draw the diagram / chart to show various steps / metabolic summary. 60

4. Describe anatomy, physiology and importance of thyroid gland in the body. 60

1

P.T.O.
SECTION – B

5. Describe etiopathogenesis and histopathology of:
   (a) Rheumatic heart disease.
   (b) Acute osteomyelites.
   (c) Cirrhosis of lever.  

6. (a) Discuss forensic examination of injuries and wounds.
   (b) Discuss organo-phosphorous poisoning.
   (c) Discuss drowning and its medicolegal examination.  

7. Describe mechanism of action, indication, dosages and side effect of:
   (a) ACE inhibitors.
   (b) Methotrexate.
   (c) Vincristine.  

8. Describe various methods of sterilization and disinfection.  

2