

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

SECTION – B

5. Describe etiopathogenesis and histopathology of:
- (a) Rheumatic heart disease.
 - (b) Acute osteomyelites.
 - (c) Cirrhosis of liver. 20×3=60
6. (a) Discuss forensic examination of injuries and wounds.
- (b) Discuss organo-phosphorous poisoning.
 - (c) Discuss drowning and its medicolegal examination. 20×3=60
7. Describe mechanism of action, indication, dosages and side effect of:
- (a) ACE inhibitors.
 - (b) Methotrexate.
 - (c) Vincristine. 20×3=60
8. Describe various methods of sterilization and disinfection. 60