

MEDICAL SCIENCE

PAPER—I

Full Marks : 200

Time : 3 hours

The figures in the margin indicate full marks

Candidates should attempt **five** questions out of the **ten** questions. Question No. **1** is compulsory

1. Write short notes on any *four* of the following
(no answer should exceed the limit of 200 words) : 10×4=40

(a) Bronchopulmonary segments

(b) Mesencephalon

(c) Virchow's triad

(d) Functions of placenta

(e) Laboratory diagnosis of typhoid

(f) Transfusion associated infections

(g) Oral contraceptive pills

(h) Functions of sympathetic nervous system

(2)

2. Classify hormones produced by adrenal gland. Explain the metabolic actions of cortisol. Write a note on Conn's syndrome.
15+15+10=40
3. Describe the ligaments, muscles and movements involved at temporomandibular joint. Enumerate the causes of trismus.
10+10+10+10=40
4. Describe stages of erythropoiesis in the bone marrow. Classify anemia and write a note on pernicious anemia.
15+10+15=40
5. Describe the formation and utilization of ketone bodies in the body. Reason out why ketoacidosis occurs in uncontrolled diabetes mellitus. Why is it more likely to occur in type 1 diabetes?
20+10+10=40
6. Write short notes on the following : 10×4=40
 - (a) Down's syndrome
 - (b) Rh. Incompatibility
 - (c) Alcoholic liver disease
 - (d) Prokinetic drugs
7. Enumerate the drugs used in grand mal epilepsy. Explain the mechanism of action, side effects and drug interactions of phenytoin.
10+10+10+10=40

12Y—100/63

(Continued)

(3)

8. A 50-year old male presents with a palpable left supraclavicular lymphnode. Endoscopy reveals an ulcerated growth in pylorus of stomach.
 - (a) What is your diagnosis and why?
 - (b) What are the risk factors?
 - (c) Describe the varied gross and microscopic features of the condition.
10+10+20=40
9. Enumerate the fractures of skull bone. Discuss the medico-legal importance of each.
15+25=40
10. List the viruses affecting liver. Describe the morphology, pathogenesis and laboratory diagnosis of Hepatitis B virus.
10+10+10+10=40

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12Y—100/63