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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. 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 : 10x4=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 )

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

**MEDICAL SCIENCE**

**PAPER—II**

Full Marks : 200

Time : 3 hours

*The figures in the margin indicate full marks*

Candidates are required to answer **five** questions in which Question No. **1** is compulsory

**1.** Write short notes on any *four* of the following (answer not exceeding more than **200** words each) : 10×4=40

(a) Reverse cold chain

(b) Contraindications for tonsillectomy

(c) Keratomalacia

(d) Scorpion normal bite—clinical features and management

(e) Thyroid storm

(f) Brodie's abscess

(g) Complications of tubectomy

(h) Kwashiorkor and marasmus

- 2. A 10-day-old infant is brought with one-day history of fever, refusal of feeds and sudden onset of convulsions.
  - (a) Mention four important differential diagnoses.
  - (b) How will you investigate to rule out various causes?
  - (c) Suggest treatment of the most likely cause of this condition. 10+15+15=40
  
- 3. What are the supports of uterus? How will you manage III degree uterovaginal prolapse in a 45-year-old multiparous woman? 10+30=40
  
- 4. A 50-year-old man presents with hematuria.
  - (a) Enumerate the possible causes.
  - (b) How will you investigate this patient?
  - (c) Briefly outline the management of renal cell carcinoma. 10+15+15=40
  
- 5. A 60-year-old man presents with severe retrosternal pain of one-hour duration. How will you investigate and manage him? 20+20=40

- 6. Write short notes on the following : 10x4=40
  - (a) Informed consent
  - (b) Tuberculosis of abdomen
  - (c) Postpartum haemorrhage
  - (d) Lucid interval
  
- 7. A 30-year-old woman presents with drooping of the shoulder. The contour of shoulder is lost. There is history of fall on the palm of outstretched hand.
  - (a) What are the types of fractures following a fall on outstretched hand?
  - (b) How will you treat recurrent dislocation of shoulder joint? 20+20=40
  
- 8. How will you investigate to locate the site and extent of intra-abdominal injury in a patient presenting with blunt injury to abdomen? Briefly discuss the principles of management of splenic injury. 20+20=40
  
- 9. Discuss the clinical features, investigations, management and complications of rheumatic fever? 10+10+10+10=40
  
- 10. Define primary health care. Discuss the role of NRHM in improving the health status of the community. 10+30=40

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