

**CC/M/EXAM.
2020**

MEDICAL SCIENCE

PAPER—I

Time : 3 hours]

[Full Marks : 250

Note : Question Nos. 1 and 5 are compulsory and out of the remaining, any **three** are to be attempted choosing at least ONE question from each Section. The number of marks carried by a question/part is indicated against it.

SECTION—A

1. Answer *any five* of the following questions in about 150 words each : 10×5=50
- (a) Describe the anatomy, blood supply and lymphatic drainage of breast.
 - (b) Describe the pathway of corticospinal tracts.
 - (c) What is polymerase chain reaction? Write briefly about its applied aspects.
 - (d) Write briefly about humoral immunity and cell mediated immunity.
 - (e) How would you proceed to examine a rape victim?
 - (f) Describe the neuromuscular junction.
 - (g) Briefly describe the anatomy of ventricles of brain.
2. Answer the following questions :
- (a) Describe ischiorectal fossa. Write a short note on ischiorectal abscess. 20
 - (b) Describe the different components of basal ganglia. Write a short note on Parkinson's disease. 15
 - (c) Classify antidiabetic drugs. Write briefly about metformin. 15

3. Answer the following questions :

- (a) Classify acute leukemia. Write briefly about laboratory investigations of a case of acute myeloid leukemia. 20
- (b) Write briefly on Narcotic Drugs and Psychotropic Substances (NDPS) Act. Describe the approach to a patient of organophosphorus compound ingestion. 15
- (c) What is dengue fever? Write in short about the laboratory diagnosis of a patient with dengue fever. 15

4. Answer the following questions :

- (a) Discuss the development of ventricular septum of the heart. Write briefly about different types of VSD. 20
- (b) Write briefly about the regulation of pituitary hormone secretion. What is diabetes insipidus? 15
- (c) What is Graves' disease? Write a short note on thyroid function tests. 15

SECTION—B

5. Answer *any five* of the following questions in about 150 words each : 10×5=50

- (a) Describe the course of facial nerve and its applied importance.
- (b) Discuss the physiology of menstrual cycle. Write briefly about amenorrhea.
- (c) Write about the fat-soluble vitamins and deficiency disorders associated with them.
- (d) What is cancer? Write briefly about benign and malignant cancers.
- (e) Classify antihypertensive drugs. Write briefly about angiotensin-converting enzyme (ACE) inhibitors.
- (f) Write briefly about restriction fragment length polymorphism.
- (g) Write a short note on fingerprinting.

6. Answer the following questions :

- (a) Discuss the anatomy of shoulder joint and its clinical importance. 20
- (b) Describe the etiopathogenesis and histopathology of cirrhosis of liver. 15
- (c) Write briefly about the causative agent of enteric fever. Write in short about the laboratory diagnosis of a case of enteric fever. 15

7. Answer the following questions :

- (a) Classify anticancer drugs. Write briefly about cyclophosphamide. 20
- (b) Write briefly about lacerated wounds. 15
- (c) Describe the anatomy of inguinal region. 15

8. Answer the following questions :

- (a) Discuss the circulation of cerebrospinal fluid. Write briefly about the laboratory diagnosis of a case of acute meningitis. 20
- (b) Write briefly about the visual pathways. Describe the causes of sudden loss of vision. 15
- (c) Classify antimicrobial drugs. Write a short note on aminoglycosides. 15
