

Day : **Wednesday**

Time: **09.00 AM TO 12.00 NOON**

Date : **06/06/2018**

S-2018-3586

Max. Marks: 70.

N.B.:

- 1) All questions are **COMPULSORY**.
- 2) Both the sections should be written in **SEPARATE** answer books.
- 3) Figures to the **RIGHT** indicate full marks.
- 4) Draw neat labeled diagrams **WHEREVER** necessary.

SECTION-I

- Q.1 Long Essay Questions (Any One) (10)**
- a) Define neoplasia. Describe the differences between benign and malignant tumours.
 - b) Define repair and describe formation of granulation tissue.
- Q.2 Short Essay Questions (Any Three) (15)**
- a) Describe in detail pathogenesis of thrombosis.
 - b) Classify chemical carcinogens and add a note on chemical carcinogenesis.
 - c) Enumerate three tests done for laboratory diagnosis of myocardial infarction. Enumerate 2 complications of myocardial infarction.
 - d) Secondary tuberculosis.
- Q.3 Write short answer (Any Five) (10)**
- a) Enumerate 4 complications of lobar pneumonia.
 - b) Coagulative necrosis.
 - c) Dystrophic calcification.
 - d) Pathogenesis of chronic venous congestion of liver.
 - e) Steps in Phagocytosis.
 - f) Enumerate 4 causes of megaloblastic anemia.

SECTION-II

- Q.4 Long Essay Questions (Any One) (10)**
- a) Classify Streptococci. Describe the morphology, cultural characteristics, biochemical reactions, toxins and enzymes produced and pathogenicity of Streptococcus pyogens. Describe the laboratory diagnosis of Streptococcal infections.
 - b) Enumerate DNA and RNA viruses. Describe the morphology and modes of transmission and laboratory diagnosis of Hepatitis B virus infection. Write about the prophylaxis of hepatitis B.
- Q.5 Short Essay Questions (Any Three) (15)**
- a) Describe biomedical waste in relation to its generation, segregation, pretreatment and disposal.
 - b) Name the pathogenic anaerobic bacteria. Describe the pathogenesis and laboratory diagnosis of tetanus.
 - c) Classify and describe hypersensitivity reactions with suitable examples.
 - d) Enumerate cariogenic microorganisms. Describe the factors affecting dental caries.
- Q.6 Write short answer (Any Five) (10)**
- a) Contributions of Robert Koch.
 - b) Name four types of bacterial filters.
 - c) Define Zoonosis with examples.
 - d) Name four fungi causing opportunistic fungal infections.
 - e) Name of definitive and intermediate host in life cycle of Taenia solium.
 - f) Enumerate standard tests for diagnosis of syphilis.