

II – B.D.S. (2008 COURSE) : WINTER - 2017
SUBJECT: GENERAL PATHOLOGY AND MICROBIOLOGY

Day : **Friday**
Date : **03/11/2017**

W-2017-3496

Time: **09.00 AM TO 12.00 NOON**
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 Define inflammation. Describe formation of exudate. **(10)**

OR

Define neoplasia. Classify chemical carcinogens. Describe the process of chemical carcinogenesis.

Q.2 Short Essay Questions (**Any Three**) **(15)**

- a) Describe process of granulation tissue formation
- b) Caseous necrosis
- c) Laboratory investigations in a case of hemorrhagic disorder
- d) Aetiopathogenesis of thrombosis

Q.3 Short Answer Questions (**Any Five**) **(10)**

- a) Enumerate complications of lobar pneumonia.
- b) Enumerate pathogenetic mechanisms of generalised oedema.
- c) Define Hypertrophy and give 2 examples.
- d) Factors delaying wound healing.
- e) Differences between tuberculoid and lepromatous leprosy.
- f) Enumerate acute metabolic complications of diabetes mellitus.

SECTION-II

Q.4 Define total and viable count. Describe phases of bacterial growth curve with diagram. Describe factors affecting microbial growth. **(10)**

OR

Describe the morphology, cultural characteristics and pathogenicity of Mycobacterium tuberculosis. Describe the laboratory diagnosis and immunoprophylaxis of pulmonary tuberculosis.

Q.5 Short Essay Questions (**Any Three**) **(15)**

- a) Define disinfectants. Classify and write the mode of action of disinfectants.
- b) Mention various antigen-antibody reactions. Describe the principle and applications of precipitation reaction with suitable examples.
- c) Enumerate DNA and RNA viruses. Describe the morphology and modes of transmission of Hepatitis B virus infection.
- d) Name the pathogenic anaerobic bacteria. Describe the pathogenesis and laboratory diagnosis of gas gangrene.

Q.6 Short Answer Questions (**Any Five**) **(10)**

- a) Differentiate between exotoxins and endotoxins.
- b) Write the role of normal flora in oral cavity.
- c) Describe the Immunoprophylaxis of diphtheria.
- d) Coagulase test.
- e) Enumerate two protozoa with their infective forms.
- f) Write the morphological classification of fungi with examples.

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