

II – B.D.S. (2008 COURSE) : WINTER - 2018
SUBJECT: GENERAL PATHOLOGY AND MICROBIOLOGY

Day : Wednesday
Date : 05/12/2018

W-2018-3754

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** Long Essay Questions (**Any One**) **(10)**
- a) Describe pathogenesis of thrombosis. Describe clinical effects of thrombosis.
 - b) Define inflammation. Describe vascular events of acute inflammation. Enumerate causes of increased vascular permeability.
- Q.2** Short Essay Questions (**Any Three**) **(15)**
- a) Describe the gross and microscopic appearance of different stages of lobar pneumonia.
 - b) Define repair. Describe healing of a fractured bone.
 - c) Write Pathologic calcification.
 - d) Enumerate three tests done for laboratory diagnosis of myocardial infarction.
- Q.3** Write short answer (**Any Five**) **(10)**
- a) Define neoplasia. Enumerate malignant tumours arising from different types of epithelium.
 - b) Enumerate the investigations done in a case of anemia.
 - c) What is the cause of scurvy? Mention 2 clinical features of scurvy.
 - d) Enumerate 3 causes of fatty liver.
 - e) Enumerate complications of atherosclerosis.
 - f) Give 3 examples of premalignant conditions in different organs.

SECTION-II

- Q.4** Long Essay Questions (**Any One**) **(10)**
- a) Enumerate spore-bearing organisms. Describe the morphology, cultural characteristics, biochemical reactions, toxins, enzymes produced and pathogenicity of *Clostridium welchii*. Discuss the laboratory diagnosis of gas gangrene.
 - b) Define sterilization, disinfection and antisepsis. Write in detail sterilization by moist heat.
- Q.5** Short Essay Questions (**Any Three**) **(15)**
- a) Describe the structure and functions of immunoglobulins.
 - b) Write the differences between *Streptococcus viridans* and *Streptococcus pneumoniae*.
 - c) Describe the general properties and replication of viruses.
 - d) Classify leprosy. Describe polar forms of leprosy and lepra reactions.
- Q.6** Write short answer (**Any Five**) **(10)**
- a) Elek's gel precipitation test.
 - b) Enumerate the markers of pathogenicity of staphylococci.
 - c) Enumerate various virulence factors in bacteria.
 - d) Write the infective form and mode of entry of *Entamoeba histolytica*.
 - e) Write four differences between bacteria and fungi.
 - f) Enumerate stages with respective lesions of syphilis.

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