

**BACHELOR OF DENTAL SURGERY (2008 COURSE)**  
**SECOND - B.D.S. : WINTER- 2022**  
**SUBJECT : GENERAL PATHOLOGY & MICROBIOLOGY**

Day : Wednesday

Time : 09:00 AM-12:00 PM

Date : 15-03-2023

**W-5754-2022**

Max. Marks : 70

**N.B.**

- 1) All questions are **COMPULSORY**.
- 2) Figures to the **RIGHT** indicate **FULL** marks.
- 3) Answer to both the sections should be written in **SEPARATE** answerbook.
- 4) Draw neat diagram wherever necessary.

**SECTION – I**

**Q.1** Define oedema. Discuss etiopathogenesis of oedema. Write note on Renal (10)  
oedema.

**OR**

Define inflammation. Describe the cellular events in acute inflammation. Mention the fate of acute inflammation.

**Q.2** Write **ANY THREE** of the following : (15)

- a) Define granuloma. Describe the evolution of tubercle.
- b) Define Leukemia. Describe clinical features and investigations in acute leukemia.
- c) Describe the chemical carcinogenesis.
- d) Define shock. Write the etiopathological classification of shock. Describe the stages of shock.

**Q.3** Write **ANY FIVE** of the following : (10)

- a) Mention the causes, gross and microscopic appearance of chronic venous congestion of liver.
- b) Define metaplasia and dysplasia with examples.
- c) Enumerate different types of necrosis with examples.
- d) Enumerate investigations in Iron deficiency anaemia.
- e) Define thrombosis. Mention the etiology of thrombosis.
- f) Enumerate the lesions produced in Vitamin D deficiency.

**SECTION – II**

**Q.4** Classify viruses with suitable examples. Write the differences between bacteria (10)  
and viruses. Describe the steps in replication of viruses.

**OR**

Enumerate methods of anaerobiosis. Describe the morphology, cultural characteristics, biochemical reactions, toxins and enzymes produced and pathogenicity of *Clostridium tetani*. Describe the laboratory diagnosis of tetanus. How would you immunize a person against tetanus?

**Q.5** Write **ANY THREE** of the following : (15)

- a) Enumerate pyogenic cocci. Describe the morphology, cultural characteristics of *Neisseria meningitidis*. Describe the laboratory diagnosis of meningococcal meningitis.
- b) Classify and describe hypersensitivity reactions with suitable examples.
- c) Mention spirochetes pathogenic to humans. Describe the laboratory diagnosis of syphilis.
- d) Define sterilization, disinfection and antiseptics. Describe the methods of dry heat sterilization.

**Q.6** Write **ANY FIVE** of the following : (10)

- a) What is transduction?
- b) Enumerate bacterial virulence factors.
- c) Koch's postulates.
- d) Mention four factors predisposing to opportunistic fungal infections.
- e) Write the infective form and mode of entry of *Entamoeba histolytica*.
- f) Write note on BCG Vaccine.

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