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EXAMINATION : MARCH - 2024
SECOND YEAR

Subject: Pathology and Microbiology (BPT- 21201)

Date: 4/03/2024

Total Marks: 80

Time: 2.00 pm to 5.00 pm

SECTION – A
Pathology

Q.1 Answer the following questions in short (Any five) (35)

- a. Define amyloidosis. Mention classification, pathogenesis & staining methods of amyloidosis.
- b. Define granuloma. Discuss in detail primary tuberculosis of lung & fate of primary tuberculosis.
- c. Discuss etiology, pathogenesis & clinical features of motor neurone disease.
- d. Define infarction. Discuss etiopathogenesis & laboratory investigations of myocardial infarction.
- e. Define neoplasia. Describe different routes of metastasis & mechanism of invasion of tumour.
- f. Define pathological calcification. Describe etiology & pathogenesis of dystrophic calcification.

Q.2 Answer the following questions (Any One) (15)

- a. Define inflammation. Discuss cellular events of acute inflammation & mention cardinal signs of acute inflammation.
- b. Define edema. Describe mechanisms of edema & in detail about cardiac edema.

SECTION – B
Microbiology

Q.3 Answer the following questions in short. (Any three) (15)

- a. Enumerate DNA viruses. Discuss the pathogenicity and modes of transmission of Hepatitis B virus and control of Hepatitis B.
- b. Classify Immunoglobulins. Describe the Structure and functions of Immunoglobulins.
- c. Classify Mycoses with suitable examples. Describe Dermatophytic infections.
- d. Describe the life cycle of Entamoeba histolytica. Discuss the laboratory diagnosis, prevention and control of amoebiasis.

Q.4 Answer the following questions in detail (Any one) (15)

- a. Define sterilization and disinfection. Describe in details various methods of sterilization with applications. Write a note on Autoclave.
- b. Describe the morphology, cultural characteristics, and infections caused by Staphylococcus aureus. Discuss the laboratory diagnosis, prevention, and treatment of staphylococcal infections.