

Enrolment No.

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BDS
2nd YEAR EXAMINATION
GENERAL PATHOLOGY & MICROBIOLOGY

Time : 3 Hours]

[Max. Marks : 70

NOTE: The question paper is divided into two sections A and B. Use separate copy for Section A & Section B. Draw diagram wherever necessary.

PART – A (General Pathology)

Answer all questions. Draw well labelled diagrams wherever required.

- 1) Define anemia. Enumerate etiopathological classification of anemia. Write about lab diagnosis of microcytic hypochromia anemia with well labelled diagram of peripheral smear finding. (1+2+3+1=7)
- 2) Write short notes on : (4 × 3 = 12)
 - a. Routes of metastasis with example
 - b. Osteoclastoma (Giant cell tumour of Bone) – Gross and microscopy
 - c. Oral squamous cell carcinoma- Etiopathogenesis, morphology and spread (3 × 2 = 6)
- 3) Tabulate differences between : (1 × 10 = 10)
 - a. Necrosis and apoptosis
 - b. Hodgkin's & Non-hodgkin's lymphoma
- 4) Answer precisely :
 - a. Enumerate cardinal signs of inflammation
 - b. Two differences between Exudate and Transudate
 - c. Two factors affecting wound healing
 - d. Four components of granuloma
 - e. Write Genotype of Down & Turner syndrome
 - f. Two main types of amyloid
 - g. Most common benign tumour of salivary gland
 - h. Two types of Pathological calcification
 - i. Components of virchow's triad
 - j. Hemophilia A & B one caused by deficiency of and respectively.

PART – B (Microbiology)

- Q1) Explain pathogenesis, clinical features and laboratory diagnosis of Pulmonary Tuberculosis. (2+3+5 = 10)
- Q2) Write Short note on: (5 × 4 = 20)
 - a) Moist heat sterilization
 - b) Laboratory diagnosis of Malaria.
 - c) Bacteriophage.
 - d) Type I Hypersensitivity.
 - e) Bacterial growth curve.
- Q3) Write the differences between: (2 × 2.5 = 5)
 - a) Agglutination and Precipitation
 - b) Hepatitis A and Hepatitis B

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Paper Code : BDS-201

(A) (SVSU:2020-21/R)

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General Pathology & Microbiology

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Part – A (General Pathology)

Q1. Define Inflammation. Enumerate cardinal signs of inflammation. Discuss chemical mediators responsible for them. Write about outcomes of inflammation. (1+2+5+2=10)
 (3x5=15)

Q2. Write short notes on:

- Types of Shock.
- Opportunistic Infections in HIV.
- Differences between chronic Myeloid Leukemia and Leukemoid reaction.
- Pleomorphic adenoma.
- Laboratory diagnosis of Iron deficiency anemia.

(1x10=10)

Q3. Answer precisely :

- Four types of necrosis.
- Malignant tumour arising from mesenchymal tissue is called and
- Organisms causing Leprosy and Tuberculosis are and
- Two factors influencing wound healing (1) (2)
- Subtypes of Hodgkins lymphoma
- Two complications of Diabetes mellitus
- Two key Microscopic features of Giant cell tumour of bone.
- Name two types of Pathological calcification.
- Two common causes of megaloblastic anemia.
- Components of Virchows triad.

PART- B (Microbiology)

1. Define and classify hypersensitivity. Discuss Type IV hypersensitivity reaction in detail

(2+2+6=10)
(3x5=15)

2. Answer (any 3) of the following: -

- Difference between Gram positive & Gram negative cell wall.
- Autoclave.
- Anaerobic culture methods.
- Laboratory diagnosis of Pulmonary Tuberculosis.

(10x1=10)

3. Write briefly on the following:-

- Infective form of Entamoeba histolytica is
- The method of sterilization of L J media is
- Mechanism of direct transfer of free DNA is
- Scalded skin syndrome is mediated bytoxin.
- Anaerobic culture media used for anaerobic bacteria is.....
- Most common bacteria causing dental caries is
- Needle and other sharp materials should be discarded in
- Weil's disease is caused by
- Oral –facial mucosal lesions are caused by Herpes Simplex virus type.....
- Causative organism for oral thrush is
