

SECOND YEAR B.D.S. DEGREE EXAM
(Common to Second Year Paper II - Modified Regulation III Candidates)

PAPER I – GENERAL PATHOLOGY AND MICROBIOLOGY

Q.P Code: 544206

Time: 180 Minutes

Maximum: 70 Marks

Draw Suitable diagrams wherever necessary
Answer section A and B in Separate Answer Books

SECTION – A
(GENERAL PATHOLOGY)

I. Elaborate on: **(1 x 10 = 10)**

1. Define Inflammation. Discuss the chemical mediators of Inflammation.

II. Write Notes on: **(5 x 5 = 25)**

1. Systemic and oral manifestations of AIDS.
2. Apoptosis.
3. Caisson's Disease.
4. Grading and staging of tumour.
5. Idiopathic Thrombocytopenic Purpura (ITP).

SECTION – B
(MICROBIOLOGY)

I. Elaborate on: **(1 x 10 = 10)**

1. Define sterilisation. Write in detail about the physical methods of sterilisation.

II. Write Notes on: **(5 x 5 = 25)**

1. Taeniasis.
2. Gene transfer methods.
3. Laboratory diagnosis of Treponema pallidum.
4. Prophylaxis of Rabies.
5. Dimorphic fungi.

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SECTION – A
(GENERAL PATHOLOGY)

I. Elaborate on: (1 x 10 = 10)

1. Define Neoplasia. Discuss the routes of spread of malignant tumours.

II. Write Notes on: (5 x 5 = 25)

1. Dry Gangrene.
2. Type I Hypersensitivity.
3. Blood and Bone marrow picture of Chronic Myeloid Leukaemia.
4. Congenital Syphilis.
5. Types of Infarcts.

SECTION – B
(MICROBIOLOGY)

I. Elaborate on: (1 x 10 = 10)

1. Write the morphology, culture, antigenic structure, pathogenesis and laboratory diagnosis of Salmonella typhi.

II. Write Notes on: (5 x 5 = 25)

1. Autoclave.
2. Acquired immunity.
3. Gas gangrene.
4. Lab diagnosis of Hepatitis B infection.
5. Candidiasis.

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SECTION – A
(GENERAL PATHOLOGY)

I. Elaborate on: **(1 x 10 = 10)**

1. Define shock. What are the types of shock? Discuss the pathogenesis of septic shock.

II. Write Notes on: **(5 x 5 = 25)**

1. Squamous cell Carcinoma.
2. Primary complex.
3. Define and classify different types of Leukemia.
4. Cytokinins.
5. Dystrophic calcification.

SECTION – B
(MICROBIOLOGY)

I. Elaborate on: **(1 x 10 = 10)**

1. Describe the pathogenesis and laboratory diagnosis of syphilis.

II. Write Notes on: **(5 x 5 = 25)**

1. Transport media.
2. Type I hypersensitivity reaction.
3. Cultivation of viruses.
4. Moniliasis.
5. Roundworm infestation.

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SECTION – A
(GENERAL PATHOLOGY)

I. Elaborate on: (1 x 10 = 10)

1. Define Inflammation. Discuss the cellular events of acute inflammation.

II. Write Notes on: (5 x 5 = 25)

1. Fatty change of Liver.
2. Fate of Thrombus.
3. Congenital Syphilis.
4. DIC.
5. Blood and Bone marrow picture of AML.

SECTION – B
(MICROBIOLOGY)

I. Elaborate on: (1 x 10 = 10)

1. Define Sterilisation. Classify and write in detail about Dry Heat Sterilisation.

II. Write Notes on: (5 x 5 = 25)

1. Transport Media.
2. Antigens, toxins enzymes of staphylococcus aureus.
3. Widal Test.
4. Microfilaria.
5. Oral microbial Flora.

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SECTION – A
(GENERAL PATHOLOGY)

I. Elaborate on: **(1 x 10 = 10)**

1. Define Shock. Write the classification of shock. Discuss the etiopathogenesis and complication of septic shock.

II. Write Notes on: **(3 x 5 = 15)**

1. Differences between Benign and Malignant tumor.
2. Role of complements in Inflammation.
3. Types and etiological aspects of Gangrene.

III. Short answers: **(5 x 2 = 10)**

1. Give two examples for Physiological and Pathological giant cells.
2. Scurvy.
3. Barr body.
4. Virchows Triad.
5. Pernicious Anemia.

SECTION – B
(MICROBIOLOGY)

I. Elaborate on: **(1 x 10 = 10)**

1. Describe the bacterial cell in brief with neat diagram.

II. Write Notes on: **(3 x 5 = 15)**

1. Bio medical waste management guidelines.
2. Opportunistic fungal infections.
3. Prophylaxis of Clostridium Tetani.

III. Short answers: **(5 x 2 = 10)**

1. Immunoglobulins.
2. What is a Dane particle and who are Hepatitis B Carriers?
3. What is excystation and encystation in life cycle of Entamoeba histolytica?
4. Write uses of Dark field and phase contrast microscopes.
5. Enriched Media.

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SECTION – A
(GENERAL PATHOLOGY)

I. Elaborate on: (1 x 10 = 10)

1. Define Neoplasia. Discuss Chemical Carcinogenesis.

II. Write Notes on: (3 x 5 = 15)

1. Define and discuss the process of Metastasis.
2. Granuloma – Types and Mechanism of formation.
3. Brown Induration of Lungs.

III. Short answers: (5 x 2 = 10)

1. Opportunistic infections.
2. Trisomy 21.
3. Differences between transudate and exudate.
4. Give two examples for Physiological and Pathological atrophy.
5. Leukemoid reaction.

SECTION – B
(MICROBIOLOGY)

I. Elaborate on: (1 x 10 = 10)

1. Write the morphology, cultural characteristics, pathogenesis and laboratory diagnosis of Mycobacterium Tubercle Bacilli.

II. Write Notes on: (3 x 5 = 15)

1. Anaerobic culture methods.
2. Asexual cycle (Schizogony) of Malaria parasite.
3. Oral Thrush.

III. Short answers: (5 x 2 = 10)

1. Gene transfer methods.
2. What is meant by dental plaque and dental caries?
3. What is B-cells and T-cells?
4. Pasteurization.
5. Write 2 stains and 2 cultures used for fungal identification.

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SECTION – A
(GENERAL PATHOLOGY)

I. Elaborate on: **(1 x 10 = 10)**

1. Define oedema. Write in detail about the pathogenesis of oedema.

II. Write Notes on: **(3 x 5 = 15)**

1. Pathologic Calcification.
2. Types of Embolism.
3. Fracture Healing

III. Short answers: **(5 x 2 = 10)**

1. Hemophilia.
2. Give three special stains for Amyloidosis.
3. What are the stages you see in the peripheral smear of chronic myeloid leukemia?
4. Give three microscopic changes in Diabetic Kidney.
5. Name two benign Salivary Gland tumors.

SECTION – B
(MICROBIOLOGY)

I. Elaborate on: **(1 x 10 = 10)**

1. Define Hypersensitivity and explain in detail Type I Hypersensitivity reaction.

II. Write Notes on: **(3 x 5 = 15)**

1. Bacterial spore.
2. Hot air oven.
3. Dermatophytes.

III. Short answers: **(5 x 2 = 10)**

1. Bacteriophage.
2. Louis Pasteur.
3. Lymphogranuloma Venereum.
4. Herpes zoster.
5. Meningitis.

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SECTION – A
(GENERAL PATHOLOGY)

I. Elaborate on: **(1 x 10 = 10)**

1. Describe the types and mechanisms of wound healing. What are the factors which affect wound healing? What are the complications of wound healing?

II. Write Notes on: **(3 x 5 = 15)**

1. Peripheral blood picture and Clinical manifestations of Iron deficiency anaemia.
2. Types of Necrosis with examples.
3. Arachidonic acid metabolites in inflammation.

III. Short answers: **(5 x 2 = 10)**

1. Albinism.
2. Name 4 pre-malignant conditions of oral cavity cancer.
3. Fate of thrombus.
4. Types of metastatic spread and one example of each.
5. Rickets.

SECTION – B
(MICROBIOLOGY)

I. Elaborate on: **(1 x 10 = 10)**

1. Describe the pathogenicity and lab diagnosis of Hepatitis B virus.

II. Write Notes on: **(3 x 5 = 15)**

1. Autoclave.
2. Candidiasis.
3. Hydatid cyst.

III. Short answers: **(5 x 2 = 10)**

1. Transduction.
2. Dental plaque.
3. Morphology of Clostridium tetani.
4. Define Hypersensitivity.
5. Nosocomial infection.

[LR 656]

DECEMBER 2020

Sub. Code: 4206

(AUGUST 2020 SESSION)

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SECTION – A
(GENERAL PATHOLOGY)

I. Elaborate on: (1 x 10 = 10)

1. Define Shock. What are the types of Shock? Discuss Septicaemic Shock.

II. Write Notes on: (3 x 5 = 15)

1. Rodent Ulcer.
2. Brown induration of Lungs.
3. Blood and Bone Marrow Picture of Iron Deficiency Anemia.

III. Short answers: (5 x 2 = 10)

1. Define Edema.
2. Sago Spleen.
3. What is Chemotaxis? Name two Chemotactic Agents.
4. HbA1c.
5. Dysplasia.

SECTION – B
(MICROBIOLOGY)

I. Elaborate on: (1 x 10 = 10)

1. Morphology, Pathogenesis, Laboratory diagnosis and Prophylaxis of Rabies.

II. Write Notes on: (3 x 5 = 15)

1. Anaerobic Culture Methods.
2. Elek's gel Precipitation.
3. Ancylostoma Duodenale.

III. Short answers: (5 x 2 = 10)

1. Streak Culture.
2. Plasmodium Vivax.
3. Actinomycosis.
4. Histoplasmosis.
5. Food Poisoning.
