[LJ 656] AUGUST 2016 **Sub. Code: 4206**

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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[LK 656] FEBRUARY 2017 **Sub. Code: 4206**

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 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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[LL 656] AUGUST 2017 **Sub. Code: 4206**

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 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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[LM 656] FEBRUARY 2018 **Sub. Code: 4206**

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 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 Sterlisation. Classify and write in detail about Dry Heat Sterlisation.

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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[LN 656] AUGUST 2018 **Sub. Code: 4206**

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 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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[LO 656] **FEBRUARY 2019** **Sub. Code: 4206**

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 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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[LP 656] AUGUST 2019 **Sub. Code: 4206**

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 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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[LQ 656] FEBRUARY 2020 **Sub. Code: 4206**

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. 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.

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[LR 656] DECEMBER 2020 **Sub. Code: 4206**

(AUGUST 2020 SESSION)

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 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.

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[BDS 0921] SEPTEMBER 2021 **Sub. Code: 4206**

(FEBRUARY 2021 SESSION)

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. Classify Anemias. Define new lab diagnosis of IDA.

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

1. Tumour Markers.
2. Rodent Ulcer.
3. Blood and Bone Marrow Picture of CML – Chronic Myeloid Leukemia.

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

1. Give two Microscopic features in Kidney in Hypertension.
2. Define Thrombosis. What is Virchow's Triad?
3. Hemophilia.
4. Name two special Stains for fat.
5. Oral Manifestation of AIDS.

SECTION – B
(MICROBIOLOGY)

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

1. Morphology, laboratory diagnosis and Prophylaxis of Mycobacterium Tuberculosis Bacilli.

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

1. Toxin and Enzyme of Streptococci
2. Dental Plaque
3. Laboratory Diagnosis of HIV

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

1. Koch's Postulate.
2. Mechanism of Autoimmunity.
3. Nagler Reaction.
4. Black Water Fever.
5. Autoclave.

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THE TAMIL NADU DR. M.G.R. MEDICAL UNIVERSITY

[BDS 1221] **DECEMBER 2021** **Sub. Code: 4206**
(AUGUST 2021 SESSION)

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. Write in detail about the Cellular events in Acute Inflammation.

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

1. Lab diagnosis of Megaloblastic Anaemia.
2. Diagnosis of Amyloid and Anaemia.
3. Granuloma.

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

1. Four examples of Metaplasia.
2. Reed – Sternberg Cell.
3. Pathogenesis of Oedema.
4. Virchow's triad.
5. Nutmeg Liver.

SECTION – B
(MICROBIOLOGY)

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

1. Classify Non Sporing Anaerobes. Write in detail on the Infections caused by Non Sporing Anaerobes and their Treatment. Add a note on Anaerobic Culture methods.

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

1. Gaseous Sterilization in Medical/Dental Practice.
2. Transport Medium.
3. Post Exposure Prophylaxis against Rabies.

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

1. Antibiotic Susceptibility Testing.
2. Rh Incompatability Disease.
3. Modes of Transmission of Hepatitis B Virus.
4. Lymphatic Filariasis.
5. Transmission Based Precautions to Prevent SARS CoV-2.

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THE TAMIL NADU DR.M.G.R. MEDICAL UNIVERSITY

[BDS 0522] **MAY 2022** **Sub. Code: 4206**

(FEBRUARY 2022 SESSION)

B.D.S. DEGREE EXAM

(Common to Second Year Paper II Modified Regulation III Candidates)

SECOND YEAR

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. What are the types of Amyloid? What is the Pathogenesis of Amyloidosis? Write briefly about Morphological changes in various Organs in Amyloidosis. How do you Identify Amyloid in Tissues?

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

1. Coagulation Cascade.
2. Vascular events in acute Inflammation.
3. Sickle Cell Anemia.

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

1. Fatty Liver.
2. Define Thrombocytopenia. Give 2 causes of Thrombocytopenia.
3. Define Hyperplasia. Give 2 examples of Physiologic Hyperplasia.
4. Oral Candidiasis.
5. Enumerate 4 Tumors and Tumor like conditions of Jaw.

SECTION – B
(MICROBIOLOGY)

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

1. Enumerate the Viruses causing Blood Borne Viral Infections. Write in detail on the modes of Transmission, Pathogenesis and Lab Diagnosis of Human Immunodeficiency Virus (HIV). Add a note on preventive measures against Acquiring the Disease.

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

1. Operating Theatre Sterilization.
2. Faucial Diphtheria.
3. Opportunistic Fungal Infections.

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

1. Anaphylaxis.
2. Vincent's Angina.
3. Antibiotic Stewardship in Dental Practice.
4. VDRL Test.
5. Personal Protective Equipments in Infection Control.

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THE TAMIL NADU DR.M.G.R. MEDICAL UNIVERSITY

[BDS 1222] **DECEMBER 2022** **Sub. Code: 4206**

(AUGUST 2022 EXAM SESSION)

B.D.S. DEGREE EXAM

(Common to Second Year Paper II Modified Regulation III Candidates)

SECOND YEAR

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. Write in detail about Chemical mediators of inflammation.

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

1. Megaloblastic Anaemia.
2. Fracture healing.
3. Enumerate the viral carcinogens. Describe the role of HPV in carcinogenesis.

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

1. Enumerate the Transfusion Reactions.
2. Define necrosis. Enumerate the types of necrosis.
3. Name two Antioxidants.
4. Define Infarct. Enumerate the types of infarct with one example of each type.
5. Clinical features of congenital syphilis.

SECTION – B
(MICROBIOLOGY)

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

1. Classify Streptococci. Describe in detail the toxin production and lab diagnosis of β haemolytic Streptococci.

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

1. Oral thrush.
2. Mumps.
3. Anaerobic culture methods.

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

1. Structure of Bacteriophage.
2. Widal test.
3. Dane particle.
4. Name two Non-Tuberculous Mycobacteria.
5. B.vincenti.

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THE TAMIL NADU DR.M.G.R. MEDICAL UNIVERSITY

[BDS 0323] **MARCH 2023** **Sub. Code: 4206**

(SEPTEMBER 2022 EXAM SESSION)

B.D.S. DEGREE EXAMINATION

(Common to Second Year Paper II Modified Regulation III Candidates)

SECOND YEAR

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 Neoplasia. Classify carcinogens. Elaborate on microbial carcinogens.

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

1. Pathological calcification.
2. Ameloblastoma.
3. Chronic Myeloid Leukemia.

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

1. Down syndrome.
2. Osteoporosis.
3. Types of necrosis with example.
4. Air embolism.
5. Ghon complex.

SECTION – B
(MICROBIOLOGY)

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

1. Write in detail morphology, clinical features and laboratory diagnosis of Human Immunodeficiency Virus (HIV). Add a note on oral opportunistic infections in HIV.

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

1. Type IV Hypersensitivity.
2. Viridans group of Streptococci.
3. Categories of Biomedical waste and its Disposal.

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

1. Candidiasis.
2. Mention any two methods of gene transfer in bacteria.
3. Sample collection for SARS Covid – 2.
4. Diagnostic test for Malaria.
5. Prophylaxis for Tetanus.

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