

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.

B.D.S. DEGREE EXAMINATION

{New Modified Revised Regulation (August 2016 Examination Session onwards)}

And New Modified Regulation (Candidates admitted from 2008-2009 onwards)}

SECOND YEAR

PAPER I – GENERAL PATHOLOGY AND MICROBIOLOGY

Q.P Code: 544206

Time: Three Hours

Maximum: 70 Marks

Answer all questions in the same order

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 Edema. Write about the pathogenesis in different types of Edema.

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

1. Idiopathic thrombocytopenic purpura.
2. Classify Amyloidosis and the diagnostic methods of Amyloidosis.
3. Down syndrome.

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

1. Difference between Lymphoblasts and Myeloblasts.
2. Reed-Sternberg cell.
3. Name four Granulomatous diseases.
4. Air embolism.
5. Next generation sequencing study.

SECTION – B

(MICROBIOLOGY)

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

1. Classify Sterilization process. Describe the principle, mechanism and uses of Autoclave.

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

1. Toxins of Streptococcus pyogenes.
2. Widal test.
3. Type IV hypersensitivity Reaction.

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

1. Triple Sugar Iron medium (TSI).
2. Name two human oncogenic viruses and related malignancies.
3. Spill management.
4. Germ tube test.
5. Negative staining.

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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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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.

[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

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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 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.

SECOND YEAR B.D.S. DEGREE EXAM
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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.

SECOND YEAR B.D.S. DEGREE EXAM
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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.

SECOND YEAR B.D.S. DEGREE EXAM
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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.

SECOND YEAR B.D.S. DEGREE EXAM
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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.

[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.

SECOND YEAR B.D.S. DEGREE EXAM
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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.

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

[BDS 1221]

**DECEMBER 2021
(AUGUST 2021 SESSION)**

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. 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 Incompatibility Disease.
3. Modes of Transmission of Hepatitis B Virus.
4. Lymphatic Filariasis.
5. Transmission Based Precautions to Prevent SARS CoV-2.

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

[BDS 0522]

**MAY 2022
(FEBRUARY 2022 SESSION)**

Sub. Code: 4206

**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. Sick 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.

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

[BDS 1222]

**DECEMBER 2022
(AUGUST 2022 EXAM SESSION)**

Sub. Code: 4206

**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.

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

[BDS 0323]

**MARCH 2023
(SEPTEMBER 2022 EXAM SESSION)**

Sub. Code: 4206

**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.

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: Three Hours

Maximum: 70 Marks

Answer all questions in the same order

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. Elaborate on the etiopathogenesis and pathology of Shock.

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

1. Chemical carcinogenesis.
2. Cellular events of Inflammation.
3. Hereditary Spherocytosis.

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

1. Rh Blood group.
2. Four diagnostic criteria of Rheumatic fever.
3. Four complications of diabetes Mellitus.
4. Granuloma.
5. Virchow's triad.

SECTION – B

(MICROBIOLOGY)

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

1. Discuss the infections caused by Non-sporing Anaerobes and Laboratory diagnosis of Anaerobic infections.

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

1. Bacterial Cell Wall.
2. Active Immunity.
3. Herpes simplex virus.

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

1. Mantoux Test.
2. Any four Opportunistic Fungal infections.
3. VDRL Test.
4. Write the morphological forms of Malarial Parasite seen in peripheral smear examination.
5. Personal protective Equipment.

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

[BDS 0824]

AUGUST 2024

Sub. Code: 4206

B.D.S. DEGREE EXAMINATION

SECOND YEAR

PAPER I – GENERAL PATHOLOGY AND MICROBIOLOGY

Q.P Code: 544206

Time: Three Hours

Maximum: 70 Marks

Answer all questions in the same order

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 elaborate on the etiology, pathogenesis, clinical features, peripheral smear and bone marrow findings of Iron Deficiency Anemia.

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

1. Fate of Thrombus.
2. Rheumatic fever.
3. Hodgkin Lymphoma.

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

1. Difference between Necrosis and apoptosis.
2. Classify Carcinogens.
3. Types of Hypersensitivity Reaction.
4. Four Chemical mediators of Inflammation.
5. Scurvy.

SECTION – B

(MICROBIOLOGY)

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

1. Describe the Structure and Laboratory diagnosis of Hepatitis B Virus. Add a note on Prophylaxis against Hepatitis B Viral Infection.

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

1. Describe the structure of Antibody with neat labelled diagram.
2. Clinical presentation and Laboratory diagnosis of Mucormycosis.
3. Laboratory diagnosis of Pulmonary Tuberculosis.

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

1. COVID vaccines.
2. Anaerobic Culture Media.
3. Any four Intestinal helminths causing human infections.
4. Transduction.
5. Mention the Oral infections caused by Non-spore forming Anaerobes.

B.D.S. DEGREE EXAMINATION

SECOND YEAR

PAPER I – GENERAL PATHOLOGY AND MICROBIOLOGY

Q.P Code: 544206

Time: Three Hours

Maximum: 70 Marks

Answer all questions in the same order

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. What are the Cellular and Molecular hallmarks of Cancer? Mention any four tumor suppressor genes. Discuss in detail about Guardian of Genome.

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

1. Factors influencing Tissue repair.
2. Morphology of Hodgkins lymphoma.
3. Pathogenesis of Atherosclerosis.

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

1. Mention any four Chronic complications of Diabetes.
2. Name four Opportunistic infection in AIDS.
3. Ameloblastoma.
4. Define Shock. What are the stages of Shock.
5. Bernard Soulier syndrome.

SECTION – B

(MICROBIOLOGY)

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

1. Describe the morphology of Hepatitis B virus. Write in detail regarding laboratory diagnosis of Hepatitis B virus infection.

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

1. Hot air oven.
2. Bacterial growth curve.
3. Candida albicans.

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

1. Antigenic drift.
2. Name four zoonotic diseases.
3. Probiotics and their uses.
4. Name two intestinal nematodes.
5. Biomedical wastes segregated in red colored bin.

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

[BDS 0225]

FEBRUARY 2025

Sub. Code: 4206

B.D.S. DEGREE EXAMINATION

**New Modified Revised Regulation (August 2016 Examination Session onwards)
and New Modified Regulation {Candidates admitted from 2008-2009 onwards}**

SECOND YEAR

PAPER I – GENERAL PATHOLOGY AND MICROBIOLOGY

Q.P Code: 544206

Time: Three Hours

Maximum: 70 Marks

Answer all questions in the same order

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 Anemia. Write in detail about the pathogenesis, peripheral smear findings and clinical features of Microcytic Hypochromic anemias.

II. Write Notes on:

(3 x 5 = 15)

1. Pleomorphic adenoma.
2. Hodgkin lymphoma.
3. Morphological changes in myocardial infarction.

III. Short answers:

(5 x 2 = 10)

1. Vitamin A deficiency.
2. Pathogenesis of edema.
3. Diagnosis of Amyloidosis.
4. Metaplasia.
5. Morphology of atheromatous plaque.

SECTION – B

(MICROBIOLOGY)

I. Elaborate on:

(1 x 10 = 10)

1. Define and Classify Sterilisation. Explain heat methods of Sterilisation.

II. Write Notes on:

(3 x 5 = 15)

1. Hypersensitivity.
2. Candida albicans.
3. Infection control measures in dental practices.

III. Short answers:

(5 x 2 = 10)

1. Oral microbial flora.
2. Hepatitis B vaccine.
3. Transport media.
4. Name two bioterrorism agents.
5. Robert Koch.

B.D.S. DEGREE EXAMINATION

New Modified Revised Regulation (August 2016 Examination Session onwards)

SECOND YEAR

PAPER I – GENERAL PATHOLOGY AND MICROBIOLOGY

Q.P Code: 544206

Time: Three Hours

Maximum: 70 Marks

Answer all questions in the same order

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. What are the differences between Benign and Malignant Neoplasms? Mention four Tumour markers.

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

1. Classify Anemia. Write the investigations for Iron deficiency anemia.
2. Pleomorphic adenoma.
3. Down syndrome.

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

1. Cytokines.
2. Ameloblastoma.
3. Factors influencing wound healing.
4. Amniotic fluid embolism.
5. Routes of Metastasis.

SECTION – B

(MICROBIOLOGY)

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

1. Describe the morphology, pathogenesis and lab diagnosis of Corynebacterium diphtheriae.

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

1. MRSA.
2. Rhinosporidiosis.
3. Herpes zoster.

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

1. Name two systemic mycosis associated with oral lesions.
2. MDR TB.
3. Universal precautions.
4. Hepatitis B carriers.
5. Selective media.

B.D.S. DEGREE EXAMINATION

**New Modified Revised Regulation (August 2016 Examination Session onwards)
and New Modified Regulation {Candidates admitted from 2008-2009 onwards}**

SECOND YEAR

PAPER I – GENERAL PATHOLOGY AND MICROBIOLOGY

Q.P Code: 544206

Time: Three Hours

Maximum: 70 Marks

Answer all questions in the same order

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 about the chemical mediators of Inflammation.

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

1. Lab diagnosis of Cancer.
2. Blood transfusion reactions.
3. Primary pulmonary tuberculosis.

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

1. Metaplasia.
2. Bone marrow findings in megaloblastic anemia.
3. Diagnosis of amyloidosis.
4. Air embolism.
5. Four causes of aplastic anemia.

SECTION – B

(MICROBIOLOGY)

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

1. Classify Immunoglobulin. Describe the structure and function of IgM.

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

1. Cell wall of gram negative bacteria.
2. Pulse polio immunization.
3. Black water fever.

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

1. Enriched media.
2. Name two toxins of Streptococcus pyogenes.
3. Name two opportunistic fungal infections.
4. Infection control committee.
5. Lowenstein Jensen medium.

B.D.S. DEGREE EXAMINATION

New Modified Revised Regulation (August 2016 Examination Session onwards)

Candidates admitted for the Academic Year 2022-2023 Batch only

SECOND YEAR

PAPER I – GENERAL PATHOLOGY AND MICROBIOLOGY

Q.P Code: 544206

Time: Three Hours

Maximum: 70 Marks

Answer all questions in the same order

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 Disseminated Intravascular Coagulation. Discuss in detail about its etiology, pathogenesis, morphology, lab diagnosis and clinical features.

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

1. Type I hypersensitivity reaction.
2. Classification and Morphology of Acute myeloid leukemia.
3. Fracture healing.

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

1. Define Metaplasia. Give two examples.
2. Steps of Phagocytosis.
3. Fate of Thrombus.
4. Light microscopic findings of Myocardial infraction.
5. Pleomorphic adenoma.

SECTION – B

(MICROBIOLOGY)

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

1. Enumerate the etiology of Gas gangrene. Add a note on pathogenesis, clinical features and laboratory diagnosis of Gas gangrene.

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

1. Bacterial growth curve.
2. Non suppurative complications of Group A Streptococcal infections.
3. Herpes Simples Virus – Pathogenesis and Laboratory diagnosis.

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

1. Oral thrush.
2. Dane particle.
3. Sulphur granules.
4. Enlist the serological test for Syphilis.
5. Anaerobic culture medium.

B.D.S. DEGREE EXAMINATION

{New Modified Revised Regulation (August 2016 Examination Session onwards)}

And New Modified Regulation (Candidates admitted from 2008-2009 onwards)}

SECOND YEAR

PAPER I – GENERAL PATHOLOGY AND MICROBIOLOGY

Q.P Code: 544206

Time: Three Hours

Maximum: 70 Marks

Answer all questions in the same order

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 Edema. Write about the pathogenesis in different types of Edema.

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

1. Idiopathic thrombocytopenic purpura.
2. Classify Amyloidosis and the diagnostic methods of Amyloidosis.
3. Down syndrome.

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

1. Difference between Lymphoblasts and Myeloblasts.
2. Reed-Sternberg cell.
3. Name four Granulomatous diseases.
4. Air embolism.
5. Next generation sequencing study.

SECTION – B

(MICROBIOLOGY)

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

1. Classify Sterilization process. Describe the principle, mechanism and uses of Autoclave.

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

1. Toxins of Streptococcus pyogenes.
2. Widal test.
3. Type IV hypersensitivity Reaction.

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

1. Triple Sugar Iron medium (TSI).
2. Name two human oncogenic viruses and related malignancies.
3. Spill management.
4. Germ tube test.
5. Negative staining.