

Sl.No: M23523

Course Code:1610211

**VINAYAKA MISSION'S RESEARCH FOUNDATION
(DEEMED TO BE UNIVERSITY), SALEM**

B.H.M.S. DEGREE EXAMINATION – August 2023

Second Year

PATHOLOGY AND MICROBIOLOGY PAPER - I

Time: Three hours

Maximum: 100 marks

I. Write long essays on any **TWO** of the following: (2 x 15 = 30)

- 1) Neoplasia – definition, pathogenesis detail the difference between benign and malignant neoplasm.
- 2) What are Chronic Obstructive Pulmonary Disorders? Explain any two of them in detail.
- 3) Rheumatic fever and rheumatic heart disease – pathogenesis morphological, lesions, criterias and clinical features.

II. Write short essays on any **TEN** of the following: (10 x 5 = 50)

- 4) Carcinogenesis.
- 5) Fracture healing.
- 6) Air embolism.
- 7) Vitiligo.
- 8) Metaplasia.
- 9) Classify leukemia.
- 10) Ulcerative colitis.
- 11) Difference between crohns disease and ulcerative colitis.
- 12) Hyperplasia.
- 13) Describe about the etiopathology and types of Jaundice.
- 14) Nephrotic syndrome.
- 15) Glucose tolerance test.

III. Write short notes of the following: (**Answer ALL**): (10 x 2 = 20)

- 16) Apoptosis.
- 17) Thrombogenesis.
- 18) Gas Gangrene.
- 19) Repair.
- 20) Chemotaxis.
- 21) Cirrhosis types.
- 22) Hiatus hernia.
- 23) Virchow's sign.
- 24) Pathogenesis of mumps.
- 25) Aschoff bodies.

Sl.No: M23524

Course Code: 1610212

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**B.H.M.S. DEGREE EXAMINATION – August 2023
Second Year**

PATHOLOGY AND MICROBIOLOGY PAPER - II

Time: Three hours

Maximum: 100 marks

I. Write long essays on any **TWO** of the following: (2 x 15 = 30)

- 1) Describe the pathogenesis and lab diagnosis of salmonella typhi.
- 2) Plasmodium falciparum – life cycle, pathogenesis and lab diagnosis.
- 3) Describe the morphology pathogenicity and laboratory findings of Neisseria meningitidis.

II. Write short essays on any **TEN** of the following: (10 x 5 = 50)

- 4) Ascaris lumbricoides.
- 5) Opportunistic pathogens.
- 6) Toxoplasma gondii.
- 7) Brugia malayi.
- 8) Tape worm.
- 9) Hepatitis B.
- 10) Morphology and pathogenicity of schistosoma haematobium.
- 11) Stool Examination – Importance.
- 12) Pathogenicity of Filaria.
- 13) Describe life cycle and pathogenicity of ascaris lumbricoides.
- 14) Pathogenesis and clinical features of Staphylococcus Aureus.
- 15) Methods of transmission of infection.

III. Write short notes of the following: (**Answer ALL**): (10 x 2 = 20)

- 16) Bacteriophage – define its structure with a neat diagram.
- 17) Pathogenicity of mycobacterium leprae.
- 18) Anthrax.
- 19) Example of Gram positive organisms.
- 20) Antibody reaction.
- 21) Host.
- 22) pH Meter.
- 23) Modes of infection in enterobias vermicularis.
- 24) Mention the toxic substances produced by streptococci.
- 25) Pathogenesis and lab investigation of entamoeba histolytica.

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**B.H.M.S. DEGREE EXAMINATION – February 2023
Second Year**

PATHOLOGY AND MICROBIOLOGY PAPER - I

Time: Three hours

Maximum: 100 marks

I. Write long essays on any **TWO** of the following: (2 x 15 = 30)

- 1) Define inflammation. Describe the vascular and cellular events in acute and chronic inflammation in detail.
- 2) Describe about the etiopathology and types of cirrhosis of liver.
- 3) Define thrombosis. Describe the etiology, pathogenesis and morphology of various thrombus.

II. Write short essays on any **TEN** of the following: (10 x 5 = 50)

- 4) Necrosis. Types of necrosis with examples.
- 5) Pathogenesis – Describe.
- 6) Reversible cell injury.
- 7) Etiology of cancer.
- 8) Osteoarthritis.
- 9) Acid Peptic Disease.
- 10) Liver function test.
- 11) Gall stones.
- 12) Diabetes mellitus.
- 13) Sago spleen.
- 14) Mantoux test.
- 15) Metastasis.

III. Write short notes of the following: (**Answer ALL**): (10 x 2 = 20)

- 16) Haemorrhage.
- 17) CVC liver.
- 18) Gangrene.
- 19) Embolism.
- 20) Pigmentation Types.
- 21) Pneumonia stages.
- 22) CML.
- 23) Reflux oesophagitis – General management.
- 24) Types of angina.
- 25) Atherosclerosis.

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Second Year**

PATHOLOGY AND MICROBIOLOGY PAPER - II

Time: Three hours

Maximum: 100 marks

I. Write long essays on any **TWO** of the following: (2 x 15 = 30)

- 1) Describe pathogenesis and clinical features of vibrio cholera.
- 2) Nature and classification of viruses.
- 3) Define sterilization and explain the sterilization by physical agent.

II. Write short essays on any **TEN** of the following: (10 x 5 = 50)

- 4) Classify bacteria.
- 5) Streptococcus.
- 6) Yersinia pestis.
- 7) Difference between male and female worms of Ascaris Lumbricoides.
- 8) Difference between amoebic and bacillary dysentery.
- 9) Culture Media.
- 10) Blood group antigens.
- 11) Prophylaxis.
- 12) Immunity.
- 13) Dengue.
- 14) Negri bodies.
- 15) Enteric fever.

III. Write short notes of the following: (**Answer ALL**): (10 x 2 = 20)

- 16) Classification of fungi.
- 17) E - Coli.
- 18) Enterobius vermicularis.
- 19) Hot Air Oven.
- 20) Wuchereria Bancrofti.
- 21) Chemotherapy.
- 22) Inoculation loop.
- 23) Yellow fever.
- 24) Pox virus.
- 25) Antibiotic Sensitivity (ABST).

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**B.H.M.S. DEGREE EXAMINATION – October 2022
Second Year**

PATHOLOGY AND MICROBIOLOGY I

Time: Three hours

Maximum: 100 marks

I. Write long essays on any **TWO** of the following: (2 x 15 = 30)

- 1) Define Oedema. Describe the pathology of each type of it briefly.
- 2) What is Neoplasia? Describe in detail about the characteristics of Tumour.
- 3) Mention types of chronic obstructive Pulmonary Diseases. Describe the pathology of Bronchial Asthma.

II. Write short essays on any **TEN** of the following: (10 x 5 = 50)

- 4) Describe Fatty Degeneration in detail.
- 5) Mention five chemical mediators of Inflammation.
- 6) Describe cloudy swelling in detail.
- 7) Types of Thrombus.
- 8) Down syndrome and its features.
- 9) Pathogenesis of Granulation tissue formation.
- 10) Describe the types of Necrosis.
- 11) Deformities and Lab test for Rheumatoid Arthritis.
- 12) Describe Renal calculi and its types.
- 13) Describe the features of congenital syphilis.
- 14) Explain morphological changes of Rheumatic Heart Disease.
- 15) Describe Liver Function test and its indications to do it.

III. Write short notes of the following: (**Answer ALL**): (10 x 2 = 20)

- 16) What is Polyp?
- 17) Saddle Embolism – Explain.
- 18) Differentiate Hyperemia and Congestion.
- 19) Difference between Transudate and Exudate.
- 20) What is Herd Immunity?
- 21) What is Ghon foci?
- 22) Explain Linitis plastica.
- 23) Names of Urinary Deposits.
- 24) Mention four indications for doing ESR test.
- 25) Mention four names of stains used in pathology lab and its corresponding Diseases.

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Second Year**

PATHOLOGY AND MICROBIOLOGY PAPER - II

Time: Three hours

Maximum: 100 marks

I. Write long essays on any **TWO** of the following: (2 x 15 = 30)

- 1) Define sterilization. Describe its types in detail.
- 2) Describe the morphology, characteristics, pathogenesis and lab diagnosis of salmonella typhi.
- 3) Describe life cycle, pathogenesis, diagnosis of entamoeba Histolytica.

II. Write short essays on any **TEN** of the following: (10 x 5 = 50)

- 4) Lab diagnosis of tuberculosis.
- 5) Selective media – Describe.
- 6) Immunity and its types- short description.
- 7) Pathogenesis of Candida Albicans.
- 8) Echinococcus Granulosus- Describe.
- 9) Explain HLA typing.
- 10) Pathogenesis of Mycobacterium Leprae.
- 11) Tinea Solium – Discuss in detail.
- 12) Describe Giardiasis.
- 13) Type- IV hypersensitivity reaction – Describe.
- 14) Pathogenesis of adenovirus.
- 15) Lab diagnosis of Wuchereria Bancrofti.

III. Write short notes of the following: (**Answer ALL**): (10 x 2 = 20)

- 16) What is Algid Malaria?
- 17) Intermediate Host.
- 18) Explain capsids.
- 19) Difference between Amoebic and bacillary dysentery.
- 20) Koplik's spots - Describe.
- 21) What is simple stain?
- 22) BCG vaccine.
- 23) What is Anaphylaxis?
- 24) Define Virion.
- 25) Describe occult filariasis.

**VINAYAKA MISSION'S RESEARCH FOUNDATION
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**B.H.M.S. DEGREE EXAMINATION – April 2022
Second Year**

PATHOLOGY AND MICROBIOLOGY - I

Time: Three hours

Maximum: 100 marks

I. Write long essays on any **TWO** of the following: (2 x 15 = 30)

- 1) Define Gangrene. Discuss the pathogenesis, morphological features of different types of Gangrene.
- 2) What is Cellular Adaptation? Describe shortly its types and its characteristics.
- 3) Classify Ischemic Heart Diseases. Describe the aetiology, pathogenesis, morphological changes and Lab investigations of Myocardial Infarction.

II. Write short essays on any **TEN** of the following: (10 x 5 = 50)

- 4) Explain the vascular changes of Acute Inflammation.
- 5) Glycogen storage Diseases- Describe.
- 6) Explain the morphology and functions of Immune cells.
- 7) Describe different types of Giant cells with its diagram.
- 8) Pathology of Apoptosis.
- 9) Define Biopsy and Describe its types.
- 10) Need of studying pathology in Homoeopathy – Discuss.
- 11) What is Atheroma? How it is formed – Explain.
- 12) What is Mycetoma? Explain its Pathology.
- 13) Difference between Crohn's Disease and Ulcerative Colitis.
- 14) What is Cor Pulmonale. Describe its Pathology.
- 15) Define Degeneration. Explain Hepato Lenticular Degeneration.

III. Write short notes of the following: (**Answer ALL**): (10 x 2 = 20)

- 16) What is pus?
- 17) Mention the Nuclear changes of Irreversible cell injury.
- 18) When Cerebrospinal fluid (CSF) analysis needed?
- 19) Mention two conditions of Gout.
- 20) What is Haematuria? Mention two causes of it.
- 21) Define Anasarca.
- 22) What is Sago Spleen?
- 23) Differentiate Leukocytosis and Leukemia.
- 24) Mention four Tumour Markers.
- 25) Rudolf Virchow and his contributions in Pathology.

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**B.H.M.S. DEGREE EXAMINATION – April 2022
Second Year**

PATHOLOGY AND MICROBIOLOGY II

Time: Three hours

Maximum: 100 marks

I. Write long essays on any **TWO** of the following: (2 x 15 = 30)

- 1) Describe the Morphology , characteristics, pathogenesis and lab diagnosis of Rabies Virus.
- 2) What is Culture Media? Describe different types of it.
- 3) Describe the Life cycle, Pathogenecity, lab diagnosis of malarial parasite.

II. Write short essays on any **TEN** of the following: (10 x 5 = 50)

- 4) Bacterial Growth Curve.
- 5) Onchogenic Virus – Describe.
- 6) Pathogenesis of Staphylococcus Aureus.
- 7) Nosocomial Infection.
- 8) Antigen Antibody Reaction.
- 9) Polio Virus – Describe.
- 10) Methods of transmission of Infection.
- 11) Lab diagnosis of Treponema Pallidum.
- 12) Pathogenesis of Ascaris Lumricoids.
- 13) Aspergillosis.
- 14) Nector Americanus – Describe.
- 15) Liver Fluke – Explain.

III. Write short notes of the following: (**Answer ALL**): (10 x 2 = 20)

- 16) Define Antogen.
- 17) What is Cyclops?
- 18) Describe Reduvid bug.
- 19) Describe Calabar swelling.
- 20) What is Hauging Groin?
- 21) Lepramin Test.
- 22) Parasites present in Stool.
- 23) What is Botulism?
- 24) Oral thrush – Explain.
- 25) Define Satellitism.

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B.H.M.S. DEGREE EXAMINATION – October 2021

Second Year

PATHOLOGY AND MICROBIOLOGY PAPER - I

Time: Three hours

Maximum: 100 marks

I. Write long essays on any **TWO** of the following: (2 x 15 = 30)

- 1) Define Neoplasia. Explain about the Characteristics and metaplasia of Malignant Neoplasm.
- 2) Define COPD. Describe in detail about Chronic Bronchitis.
- 3) Define Embolism. Mention different types of Embolism. Write in detail about Pulmonary Thromboembolism.

II. Write short essays on any **TEN** of the following: (10 x 5 = 50)

- 4) Define Necrosis and explain its types.
- 5) Metaplasia.
- 6) Type I Hypersensitivity reaction.
- 7) Factors influencing Wound Healing.
- 8) Protein energy malnutrition.
- 9) Chemical mediators of Inflammation.
- 10) Raynaud's Phenomenon.
- 11) Acute Leukaemias.
- 12) Crohn's Disease.
- 13) Explain different types of Renal calculi.
- 14) Cushing's syndrome.
- 15) Leiomyoma.

III. Write short notes of the following: (**Answer ALL**): (10 x 2 = 20)

- 16) Sago spleen.
- 17) Cytokines.
- 18) Virchows Triad.
- 19) Metastatic calcification.
- 20) Zenker's degeneration.
- 21) Cor Pulmonale.
- 22) Good Pasture's Syndrome.
- 23) Sjogren's syndrome.
- 24) Wilson's disease.
- 25) Name the cardiac marker's.

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**B.H.M.S. DEGREE EXAMINATION – October 2021
Second Year**

PATHOLOGY AND MICROBIOLOGY PAPER - II

Time: Three hours

Maximum: 100 marks

I. Write long essays on any **TWO** of the following: (2 x 15 = 30)

- 1) Describe the morphology, cultural characteristics, pathogenesis and lab diagnosis of *Neisseria meningitidis*.
- 2) Describe in detail about life cycle, pathogenicity, lab diagnosis of *Plasmodium falciparum*.
- 3) Describe about pathogenesis and lab diagnosis of *Treponema pallidum*.

II. Write short essays on any **TEN** of the following: (10 x 5 = 50)

- 4) Giardiasis.
- 5) Chagas disease.
- 6) Life cycle and pathogenicity of *Enterobius vermicularis*.
- 7) Pathogenesis of *Bacillus anthracis*.
- 8) Pathogenicity of *Mycobacterium leprae*.
- 9) Shigellosis.
- 10) Polio virus.
- 11) Mumps virus.
- 12) Widal Test.
- 13) Delayed hypersensitivity.
- 14) Different types of culture medias.
- 15) Hot air oven.

III. Write short notes of the following: (**Answer ALL**): (10 x 2 = 20)

- 16) Casoni's Test.
- 17) TSS.
- 18) What is haptens?
- 19) Acid – fast stain.
- 20) Koplick spot's.
- 21) Larva migrans.
- 22) Serum sickness syndrome.
- 23) General properties of virus.
- 24) ELISA test.
- 25) Negri bodies.

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B.H.M.S. DEGREE EXAMINATION – August 2021

Second Year

PATHOLOGY AND MICROBIOLOGY - PAPER - I

Time: Three hours

Maximum: 100 marks

I. Write long essays on any **TWO** of the following: (2 x 15 = 30)

- 1) Define Inflammation. Mention its classification. Describe in detail about the cellular events of acute inflammation.
- 2) Define Cirrhosis. Mention the different types of Cirrhosis. Write in detail about Alcoholic cirrhosis.
- 3) Define Shock. Explain about the aetiology, pathogenesis and different types of shock.

II. Write short essays on any **TEN** of the following: (10 x 5 = 50)

- 4) Gangrene.
- 5) Different types of Atrophy.
- 6) Amyloidosis.
- 7) Pathogenesis of Thrombosis.
- 8) Difference between Benign and Malignant Neoplasm.
- 9) Primary union of wound healing.
- 10) TAO.
- 11) Thalassaemia.
- 12) Emphysema.
- 13) Nephrotic syndrome.
- 14) Rodent ulcer.
- 15) Different between Gastric and Duodenal ulcer.

III. Write short notes of the following: (**Answer ALL**): (10 x 2 = 20)

- 16) Metaplasia.
- 17) Heart failure cells.
- 18) Nutmeg liver.
- 19) Decompression sickness.
- 20) Rickets.
- 21) Teratoma.
- 22) Aschoff bodies.
- 23) Osler's node.
- 24) Hydrocephalus.
- 25) Hashimoto's thyroiditis .

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**B.H.M.S. DEGREE EXAMINATION – August 2021
Second Year**

PATHOLOGY AND MICROBIOLOGY PAPER - II

Time: Three hours

Maximum: 100 marks

I. Write long essays on any **TWO** of the following: (2 x 15 = 30)

- 1) Describe the morphology, cultural characteristics, pathogenesis and lab diagnosis of Mycobacterium Tuberculae.
- 2) Describe in detail about life cycle, pathogenicity, lab diagnosis of Ancylostoma Duodenale.
- 3) Describe morphology, toxin, pathogenesis and lab diagnosis of vibrio cholera.

II. Write short essays on any **TEN** of the following: (10 x 5 = 50)

- 4) Hydatid cyst and its diagnosis.
- 5) Actinomycosis.
- 6) Pathogenesis of Wuchereria bancrofti.
- 7) Pathogenesis of Yersenia pestis.
- 8) Pathogenicity of Salmonella typhi.
- 9) Explain Botulism.
- 10) Rabies virus.
- 11) Pathogenesis of Varicella zoster.
- 12) Lab diagnosis of syphilis.
- 13) Autoimmune disease.
- 14) Culture methods.
- 15) Chemical methods of sterilization.

III. Write short notes of the following: (**Answer ALL**): (10 x 2 = 20)

- 16) NIH swab.
- 17) Endotoxin and Exotoxin.
- 18) Cysticercosis.
- 19) Herd immunity.
- 20) Streptococcal toxins.
- 21) List out DNA viruses.
- 22) Cell mediated immunity.
- 23) Rubella virus.
- 24) Zoonotic disease.
- 25) Immunoglobulins.

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**B.H.M.S. DEGREE EXAMINATION – December 2020
Second Year**

PATHOLOGY & MICROBIOLOGY – PAPER - I

Time: Three hours

Maximum: 100 marks

I. Write long essays on any **TWO** of the following: (2 x 15 = 30)

- 1) Define Oedema. Discuss briefly about pathology of different types Oedema.
- 2) Classify Chronic Obstructive Pulmonary Disease. Describe any one in detail.
- 3) Define Neoplasia. Describe its types, characteristics, spread, staging and grading.

II. Write short essays on any **TEN** of the following: (10 x 5 = 50)

- 4) Calcification and its types.
- 5) Metaplasia and its types.
- 6) Fatty change.
- 7) Difference between Dry and Wet Gangrene.
- 8) Necrosis and its types.
- 9) Thrombus and its types.
- 10) Pathology of Gout.
- 11) Pathology of Nephrotic Syndrome.
- 12) Teratoma and its pathological characteristics.
- 13) Peripheral blood smear and the indications to do it.
- 14) Toxic Goitre.
- 15) Aplastic anemia.



III. Write short notes of the following: (**Answer ALL**): (10 x 2 = 20)

- 16) Rudolf Virchow
- 17) What is Pus?
- 18) Saponification
- 19) Heart failure cells
- 20) Granuloma
- 21) Councilman bodies
- 22) Coolies anemia
- 23) Linitis plastica
- 24) Define Cor pulmonale
- 25) FNAC - Explain

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**B.H.M.S. DEGREE EXAMINATION – December 2020
Second Year**

PATHOLOGY AND MICROBIOLOGY – PAPER - II

Time: Three hours

Maximum: 100 marks

I. Write long essays on any **TWO** of the following: (2 x 15 = 30)

- 1) Classify enterobacteria. Give an account of the morphology, pathogenesis, lab diagnosis of *Salmonella Typhi*.
- 2) Describe the pathogenesis, clinical stages, lab diagnosis of Rabies.
- 3) Describe the life cycle, pathogenesis, lab diagnosis of *Entamoeba histolytica*.

II. Write short essays on any **TEN** of the following: (10 x 5 = 50)

- 4) Hydatid cyst and its diagnosis.
- 5) Lab diagnosis of *Mycobacterium tuberculosis*.
- 6) Selective medias and its types.
- 7) Adeno virus and its pathogenesis.
- 8) Pathogenesis, lab diagnosis of Pin worm.
- 9) Congenital Rubella and its diagnosis.
- 10) Difference between amoebic dysentery and bacillary dysentery.
- 11) Toxic shock syndrome and its pathogenesis.
- 12) Filariasis and its diagnosis.
- 13) Bacteriophage-life cycle.
- 14) Urinary tract infection and its diagnosis.
- 15) Key points of *Balantidium coli*.

III. Write short notes of the following: (**Answer ALL**): (10 x 2 = 20)

- 16) Saprophytes.
- 17) Endotoxin.
- 18) Bubonic plague.
- 19) Reduviid bug.
- 20) Parasites present in peripheral blood smear.
- 21) Humoral immunity.
- 22) Serum sickness.
- 23) LJ media.
- 24) Silver impregnation method.
- 25) Methods of isolating pure culture of Bacteria.