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Reg. No.....

Name.....

B.Sc. (MEDICAL MICROBIOLOGY) DEGREE EXAMINATION
APRIL 2025

Third Year

IMMUNOLOGY AND IMMUNOCHEMISTRY

(2008—2014 Admissions—Last and Final Special Mercy Chance)

Time : Three Hours | Maximum Marks : 100

Use separate answer books for Sections A and B.
Draw neat and labelled diagrams wherever necessary.

Section A

1. Explain antigen antibody reaction and complement system.

(9 + 9 = 18)

2. Write briefly on :

   (a) Structure and Classes of immunoglobulins, and importance.

   (b) Sources and routes of infection.

(2 × 8 = 16)

3. Write short notes on :

   (a) Agglutination reaction and applications.

   (b) Innate immunity and acquired immunity.

   (c) Antigenicity and determinants of antigenicity.

   (d) Complement fixation test.

(4 × 4 = 16)

Section B

1. Describe the structure and function of immune system.

(9 + 9 = 18)

Turn over

2. Write briefly on :

   (a) Humoural immune response.

   (b) ABO and Rh blood group, and applications.

(2 × 8 = 16)

3. Write short notes on :

   (a) Autoimmunity.

   (b) Monoclonal antibodies and factors influencing antibody production.

   (c) Immunodeficiency.

   (d) Immunology of malignancy.

(4 × 4 = 16)

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B.Sc. (MEDICAL MICROBIOLOGY) DEGREE EXAMINATION
APRIL 2025

Third Year

CLINICAL MICROBIOLOGY

(2008—2014 Admissions—Last and Final Special Mercy Chance)

Time : Three Hours | Maximum Marks : 100

Use separate answer books for Sections A and B.
Draw neat and labelled diagrams wherever necessary.

Section A

1. Write about major infectious diseases in GI tract and agents causing infectious diseases.

(9 + 9 = 18)

2. Write briefly on :

   (a) Phases of infectious diseases.

   (b) Methods to reduce infectious diseases.

(2 × 8 = 16)

3. Write short notes on :

   (a) Tuberculosis.

   (b) Herpes virus infection.

   (c) Pneumonia.

   (d) Opportunistic infection.

(4 × 4 = 16)

Section B

1. Write about different types of communicable diseases. Write about the preventive measures.

(9 + 9 = 18)

Turn over

2. Write briefly on :

   (a) Salmonellosis and prophylaxis.

   (b) Collection and transportation of lab specimen.

(2 × 8 = 16)

3. Write short notes on :

   (a) Antibiogram profile.

   (b) STD.

   (c) Candidiasis.

   (d) Influenza and malaria.

(4 × 4 = 16)

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Reg. No.....

Name.....

B.Sc. (MEDICAL MICROBIOLOGY) DEGREE EXAMINATION
APRIL 2025

First Year

ANATOMY

(2008—2014 Admissions—Last and Final Special Mercy Chance)

Time : Three Hours | Maximum Marks : 100

Answer Section A *and* Section B *in* **separate** *answer books.*
Draw neat and labelled diagrams wherever necessary.

Section A

I. Explain classification of bones and functions of skeleton. What are the constituents of bone tissue ?

(7 + 4 + 7 = 18)

II. Write briefly on :

(a) Pectoralis major and biceps.

(b) Movements of joints.

(2 × 8 = 16)

III. Write short notes on :

(a) Left and right lungs.

(b) Structure of heart.

(c) Peritoneal venous system.

(d) Salivary glands.

(4 × 4 = 16)

Turn over

Section B

IV. Write an account on female reproductive system. Explain microanatomy of fallopian tubes :

(12 + 6 = 18)

V. Write briefly on :

(a) Position and structure of spinal cord.

(b) General structure and parts of small intestine and large intestine.

(2 × 8 = 16)

VI. Write short notes on :

(a) Parts of brain.

(b) Duodenum.

(c) Size, shape and action of Pharynx.

(d) Nephrons.

(4 × 4 = 16)

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Reg. No.....

Name.....

B.Sc. (MEDICAL MICROBIOLOGY) DEGREE EXAMINATION
APRIL 2025

Second Year

PARASITOLOGY, ENTOMOLOGY AND MYCOLOGY

(2008—2014 Admissions—Last and Final Special Mercy Chance)

Time : Three Hours | Maximum Marks : 100

Answer Section A *and* Section B *in* **separate** *answer books.*
Draw neat and labelled diagrams wherever necessary.

Section A

I. Write an account on structure, life cycle and identification of Enteromonas and Wuchereria

(9 + 9 = 18)

II. Write briefly on :

(a) Platyhelminthes.

(b) Collection, preservation and transport for parasitological examination.

(2 × 8 = 16)

III. Write short notes on :

(a) Identification of protozoa and entamoeba.

(b) Giardia and Ascaris.

(c) Intestinal parasites.

(d) Mosquito control.

(4 × 4 = 16)

Turn over

Section B

IV. Give an account of morphology, life history and control of house fly and Fleas.

(9 + 9 = 18)

V. Write briefly on :

(a) Life cycle, disease transmission and control of Ticks.

(b) Superficial mycoses.

(2 × 8 = 16)

VI. Write short notes on :

(a) Classification of Dermatophytes.

(b) Control of Arthropods of public importance.

(c) Classification of yeast like fungi.

(d) Pencilliosis.

(4 × 4 = 16)

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Reg. No.....

Name.....

B.Sc. (MEDICAL MICROBIOLOGY) DEGREE EXAMINATION
APRIL 2025

Third Year

SYSTEMATIC BACTERIOLOGY AND VIROLOGY

(2008—2014 Admissions—Last and Final Special Mercy Chance)

Time : Three Hours | Maximum Marks : 100

Answer Sections A and B in separate answer books.
Draw neat and labelled diagrams wherever necessary.

Section A

I. Give an account on morphology, staining, pathogenicity and epidemiology of Staphylococci and Vibrio spp.

(9 + 9 = 18)

II. Write briefly on :

(a) Chlamydiae and Haemophilus.

(b) Pathogenesis, identification, epidemiology and treatment of Clostridium.

(2 × 8 = 16)

III. Write short notes on :

(a) Extra cellular products and toxins of Bacillus and Pneumococcus.

(b) Pasteurella and Francisella.

(c) Epidemiology and treatment of Mycobacterium tuberculosis.

(d) Morphology and culture characters of E coli.

(4 × 4 = 16)

Section B

IV. Explain the classification, morphology and culture of virus.

(6 + 4 + 8 = 18)

Turn over

V. Write briefly on :

(a) Life cycle of bacteriophage.

(b) Host response to virus infection.

(2 × 8 = 16)

VI. Write short notes on :

(a) Hepatitis virus.

(b) Oncogenic virus.

(c) Paramyxoviruses.

(d) Lab diagnosis of viral diseases.

(4 × 4 = 16)