

DECEMBER 1990

SECOND M.B., B.S. EXAMINATION, DECEMBER 1990

Part I

Paper III — MICROBIOLOGY—I

[General Microbiology, Immunology and Parasitology]

Time : Three hours

Maximum : 90 mark

(i) Answer ALL the questions.

(ii) Sections A and B should be answered in separate answer-books.

(iii) Section C must be answered separately on the answer-sheet placed inside the question paper booklet as per the instructions given on the first page.

(iv) Draw diagrams wherever needed for answers in Sections A and B.

SECTION A

1. Describe the life cycle, pathogenicity and laboratory diagnosis of *Echinococcus granulosus*. (15 marks)

2. Define passive immunity. How does it differ from active immunity? Describe the various methods of acquiring active immunity with suitable examples. (15 marks)

SECTION B

Write short notes on :

(a) Adjuvants

(b) IgE

(c) Lymphokines

(d) Gaseous disinfectants

(e) Bacterial drug resistance

(f) Anaerobic culture methods. (6 × 5 = 30 marks)

DECEMBER 1991

[008]

SECOND M.B.B.S. DEGREE EXAMINATION

Part I - Microbiology

**Paper III - GENERAL MICROBIOLOGY, IMMUNOLOGY
AND PARASITOLOGY**

Time : Three hours

Maximum : 90 marks

Answer ALL the questions

Separate answer books must be used for Sections A and B

Draw diagrams wherever necessary

SECTION A

1. Discuss the different methods of transmission of to man. (15)
2. Classify cestodes infecting man. Discuss in detail pathogenicity and laboratory diagnosis of Taenia Sodium infection. (15)

SECTION B

3. Write the short notes on: (6 x 5 = 30)
 - (a) Exotoxins
 - (b) Milk borne diseases and their prevention
 - (c) Serum sickness
 - (d) Morphology of intestinal protozoal parasites pathogenic to man.
 - (e) Microfilaria of W. Bancrofti.
 - (f) Applications of agglutination Reaction

APRIL 1992.

SECOND M.B., B.S., DEGREE EXAMINATION,
APRIL 1992.

Part I

MICROBIOLOGY — I

(GENERAL MICROBIOLOGY, IMMUNOLOGY AND
PARASITOLOGY)

Time : Three hours

Maximum : 90 marks

Two and a half hours
for Sections A and B

Sections A and B : 60 marks

Answer ALL the questions.

Sections A and B should be answered in separate answer books.

Draw diagrams wherever needed for answers.

SECTION A — (30 marks)

1. Enumerate the intestinal parasites of man and write in detail the laboratory diagnosis of enterobiasis. (15 marks)
2. Classify bacteria depending on their shape. Give examples and write in detail about the flagella of bacteria. (15 marks)

SECTION B — (6 × 5 = 30 marks)

Write notes on :

- (a) Anaphylaxis.
- (b) Seitz filter.
- (c) Transduction.
- (d) Gametocytes of *P. falciparum*.
- (e) Heterophile antigens.
- (f) *Cysticercus cellulosae*.

ND 513]

November-1994

SECOND M.B.B.S. DEGREE EXAMINATION

Part I

Paper III - MICROBIOLOGY - I

(General Microbiology, Immunology and parasitology)

Time : Three hours

Maximum : 90 marks

Separate answer books must be used for Sections A and B

Section C must be answered separately
on the answer sheet provided.

Answer ALL the questions

Draw diagrams wherever needed for
answers in Sections A and B

SECTION A - (2 x 15 = 30)

1. Describe the structure of a bacterial cell.
2. Classify Autoimmune diseases. Describe the mechanism of Autoimmunity with suitable examples.

SECTION B - (6 x 5 = 30)

3. Write short notes on any SIX of the following:

- (a) Tyndalisation
- (b) Transport media
- (c) Plasmids
- (d) B-lymphocyte
- (e) Passive agglutination
- (f) Thread worm
- (g) Free living amoebae
- (h) Black water fever

Second M.B.B.S. Degree Examination

Part I

(New Regulations)

Paper III - MICROBIOLOGY - I

(General Microbiology, Immunology and Parasitology)

Time : Three hours

Max : 100 marks

Two and a half an hour

for Sec. A and B

Sec. A and B : 70 marks

1. **Separate answer books must be used for Section A and B.**
2. **Section C must be answered separately on the answer sheet provided.**
3. **Answer All the questions.**
4. **Draw diagrams wherever necessary.**

SECTION—A (2X15=30)

1. **Enumerate intestinal Nematodes. Describe the morphology Life cycle and laboratory diagnosis of *Ankylostoma duodenale*.**
2. **Define and classify Immunity. Discuss briefly HUMORAL IMMUNITY.**

(8X5 = 40)

SECTION - B

3. **Write short notes on :**

- a) **Enriched media**
- b) **P.K. reaction**
- c) **Fluorescent antibody technique**
- d) **Plasmids**
- e) **Transduction**
- f) **T. Lymphocyte**
- g) **Trichomonas Vaginalis**
- h) **Cyclops**

MB 513]

November-1995

SECOND M.B.B.S. DEGREE EXAMINATION

Part I

(Old Regulations)

Paper III - MICROBIOLOGY - I

(General Microbiology, Immunology and parasitology)

Time : Three hours

Maximum : 90 marks

**Two and a half hours
for Section A and B**

Section A and B : 60 marks

Separate answer books must be used for Sections A and B

Section C must be answered separately on the answer sheet provided

Answer ALL the questions

Draw diagrams wherever necessary

SECTION A (2 x 15 = 30)

- 1. Enumerate the intestinal Nematodes. Describe the morphology. Life cycle and laboratory diagnosis of Ankylostoma duodenale.**
- 2. Define and classify immunity. Discuss briefly HUMORAL IMMUNITY.**

SECTION B (6 x 5 = 30)

3. Write the short notes on:

- (a) Enriched media**
- (b) P.K. reaction**
- (c) Fluorescent antibody technique**
- (d) Plasmids**
- (e) Transduction**
- (f) T. Lymphocyte**

SECOND M.B.B.S. DEGREE EXAMINATION

Part I

(New Regulations)

Paper III - MICROBIOLOGY - I

(General Microbiology, Immunology and parasitology)

Time : Three hours

Maximum : 100 marks

Two and a half hours
for Section A and B

Section A and B : 70 marks

Separate answer books must be used for Sections A and B

Section C must be answered separately on the answer sheet provided

Answer ALL the questions

Draw diagrams wherever necessary

SECTION A (2 x 15 = 30)

1. Enumerate the intestinal Nematodes. Describe the morphology. Life cycle and laboratory diagnosis of *Ankylostoma duodenale*.

2. Define and classify immunity. Discuss briefly HUMORAL IMMUNITY.

SECTION B (8 x 5 = 40)

3. Write the short notes on:

- (a) Enriched media
- (b) P.K. reaction
- (c) Fluorescent antibody technique
- (d) Plasmids
- (e) Transduction
- (f) T. Lymphocyte
- (g) *Trichomonas Vaginalis*
- (h) Cyclops

April-1996

AK 513]

Sub. Code : 4023

SECOND M.B.B.S. DEGREE EXAMINATION

Part I

(Old Regulations)

Paper III - MICROBIOLOGY - I

(General Microbiology, Immunology and parasitology)

Time : Three hours

Maximum : 90 marks

Two and a half hours
for Section A and B

Section A and B : 60 marks

Separate answer books must be used for Sections A and B

Section C must be answered separately
on the answer sheet provided.

Answer ALL the questions

Draw diagrams wherever necessary

SECTION A - (2 x 15 = 30)

1. Enumerate the various growth requirements of bacteria. Describe their gaseous requirements.
2. Describe the life cycle of plasmodium falciparum. Indicate the morphological differences between the different plasmodia that infest human RBC.

SECTION B - (6 x 5 = 30)

3. Write short notes on:

- (a) Tyndalisation
- (b) Transmissible drug resistance
- (c) Bacterial spore
- (d) Selective media
- (e) Microfilaria
- (f) Applications of ELISA test

April-1996

AK 516]

Sub. Code : 4023

SECOND M.B.B.S. DEGREE EXAMINATION

Part I

(New Regulations)

Paper III - MICROBIOLOGY - I

(General Microbiology, Immunology and parasitology)

Time : Three hours

Maximum : 100 marks

Two and a half hours
for Section A and B

Section A and B : 70 marks

Separate answer books must be used for Sections A and B

Section C must be answered separately
on the answer sheet provided.

Answer ALL the questions

Draw diagrams wherever necessary

SECTION A - (2 x 15 = 30)

1. Enumerate the various growth requirements of bacteria. Describe their gaseous requirements.
2. Describe the life cycle of plasmodium falciparum. Indicate the morphological differences between the different plasmodia that infest human RBC.

SECTION B - (8 x 5 = 40)

3. Write short notes on:

- (a) Tyndalisation
- (b) Transmissible drug resistance
- (c) Bacterial spore
- (d) Selective media
- (e) Microfilaria
- (f) Applications of ELISA test
- (g) Sporocidal chemicals
- (h) T-Cell subsets

APRIL '97

MP 521]

Sub. Code : 4023

SECOND M.B.B.S. DEGREE EXAMINATION

(Old Regulations)

Part I

Paper III - MICROBIOLOGY - I

Time : Three hours

Maximum : 90 marks

Two and a half hours
for Section A and B

Section A and B : 60 marks

Separate answer books must be used for Sections A and B

Section C must be answered separately on the answer sheet provided.

Answer ALL the questions

Draw diagrams wherever necessary

SECTION A - (30 marks)

1. What are the important protozoal parasites found in the of man. Describe briefly the aetiology, pathogenesis and laboratory diagnosis of malignant tertian malaria. (15)

2. Write short notes on: (3 x 5 = 15)

- (a) Cell mediated immunity
- (b) Sterilisation by autoclaving
- (c) Principle of monoclonal antibody production

SECTION B - (30 marks)

3. Describe the structure of the bacterial cell with particular to the difference in structure between gram positive negative cells. List the antibiotics acting on the cell wall (15)

4. Write short notes on: (3 x 5 = 15)

- (a) Trichomonas vaginalis
- (b) Life cycle of Ancylostoma duodenale
- (c) Cryptosporidium parvum

April-1997

[MP 521]

Sub. Code : 4023

SECOND M.B.B.S. DEGREE EXAMINATION.

(New Regulations)

Part I

Paper III — MICROBIOLOGY — I

Time : Three hours

Maximum : 100 marks

Two and a half hours

Section A & B : 70 marks

or Section A and B

Separate answer books must be used for Section A and B.

Section C must be answered separately on the answer sheet provided.

Answer ALL the questions.

Draw diagrams wherever necessary.

SECTION A — (35 marks)

What are the important protozoal parasites found in the food of man. Describe briefly the aetiology, pathogenesis and laboratory diagnosis of malignant tertian malaria. (15)

Write notes on :

(4 × 5 = 20)

- (a) Cell mediated immunity
- (b) Sterilisation by autoclaving
- (c) Principle of monoclonal antibody production

[MP 521]

SECTION B — (35 marks)

3. Describe the structure of the bacterial cell with particular reference to the difference in structure between gram positive and gram negative cells. List the antibiotics acting on the cell wall of bacteria. (15)

4. Write notes on :

(4 × 5 = 20)

- (a) *Trichomonas vaginalis*
- (b) Life cycle of *Ancylostoma duodenale*
- (c) *Cryptosporidium parvum*
- (d) *Cysticercus cellulosae*.

October 1997

[MS 521]

Sub. Code : 4023

SECOND M.B.B.S. DEGREE EXAMINATION.

Common to all Regulations

Part I

Paper III — MICROBIOLOGY — I

Time : Three hours

Maximum : 100 marks

Two and a half hours
for Sections A and B

Sections A and B : 70 marks
Section C : 30 marks

Separate answer books must be used for Sections A and B.

Section C must be answered separately on the answer sheet
provided as per the instructions on the first page.

Answer ALL questions.

Draw diagrams wherever necessary.

SECTION A — (35 marks)

1. Enumerate the bacteriae causing prolonged fever.
Describe the pathogenesis and the laboratory diagnosis of
Enteric fever. (15)

2. Write briefly on : (4 × 5 = 20)

- (a) T cell subsets.
- (b) Differential staining methods.
- (c) Mycotic mycetoma.
- (d) Plasmids.

[MS 521]

SECTION B — (35 marks)

3. Enumerate the tissue nematodes. Describe the life cycle
and laboratory diagnosis of *Wuchereria bancrofti*. (15)

4. Write briefly on : (4 × 5 = 20)

- (a) Non A Non B hepatitis.
 - (b) IgM.
 - (c) Presumptive coliform count.
 - (d) Arboviruses in India.
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April-1998

SV 521]

Sub. Code : 4023

SECOND M.B.B.S. DEGREE EXAMINATION

Common to all Regulations

Part I

Paper III - MICROBIOLOGY - I

Time : Three hours

Maximum : 100 marks

Two and a half hours
for Section A and B

Section A and B : 70 marks

Section C : 30 marks

Separate answer books must be used for Sections A and B

Section C must be answered separately on the answer sheet
provided as per the instructions on the first page

Answer ALL the questions

SECTION A

1. Enumerate the Antigen, Antibody reactions. Describe detail the precipitation reactions. (15)

2. Write briefly on: (4 x 5 = 20)

- (a) Bacterial growth
- (b) Methods of transmission of genetic material
- (c) Bacterial filters
- (d) Interleukins

SECTION B

3. Describe the methods used in identification of bacteria. (15)

4. Write briefly on: (4 x 5 = 20)

- (a) Plasmids
- (b) Spore bearing bacteria
- (c) Hydatid cyst
- (d) Erythrocytic stage of plasmodium vivax

[SM 521]

Sub. Code : 4023

SECOND M.B.B.S. DEGREE EXAMINATION.

Common to all Regulations

Part I

Paper III — MICROBIOLOGY — I

Time : Three hours

Maximum : 100 marks

Two and a half hours

Sec. A & Sec. B : 70 marks

for Sec. A and Sec. B

Section C : 30 marks

Separate answer books must be used for Sections A and B.

Section C must be answered separately on the answer sheet provided as per the instructions on the first page.

Answer ALL questions.

SECTION A

Classify hypersensitivity reactions. Discuss in detail Type 1 reactions. (15)

2. Write short notes on : (4 × 5 = 20)

- (a) Autoclave.
- (b) Louis Pasteur.
- (c) Plasmids.
- (d) IgA.

SECTION B

3. Name the hemoparasites. Discuss the life cycle and laboratory diagnosis of plasmodium falciparum. (15)

4. Write short notes on : (4 × 5 = 20)

- (a) Cysticercus cellulosae
- (b) Fasciola hepatica.
- (c) Microfilaria.
- (d) Primary amoebic meningo encephalitis.

April-2000

[KB 521]

Sub. Code : 4023

SECOND M.B.B.S. DEGREE EXAMINATION.

Part I

(Common to All Regulations)

Paper III — MICROBIOLOGY — I

Time : Three hours Maximum : 100 marks

Two and a half hours Sec. A & Sec. B : 70 marks

for Sec. A and Sec. B Section C : 30 marks

Separate answer books must be used for Section A
and B.

Section C must be answered separately on the answer
sheet provided.

Answer ALL the questions.

Draw diagrams wherever necessary.

SECTION A — (35 marks)

1. Define and classify Immunoglobulins.

Describe the structure and functions of
Immunoglobulin 'G'. (15)

2. Write notes on : (4 × 5 = 20)

- (a) 'L' forms of bacteria
- (b) Plasmids
- (c) Immuno fluorescent test
- (d) Autoclave.

SECTION B — (35 marks)

3. Classify cistodes. Describe the life cycle
pathogenesis and laboratory diagnosis of Echinococcus
granulosis. (15)

4. Write notes on : (4 × 5 = 20)

- (a) Trichinella Spiralis
- (b) Life cycle of entamoeba histolytica
- (c) Exo-Erythrocytic cycle
- (d) Cryptosporidium Parvum

October-2000

[KC 521]

Sub. Code : 4023

SECOND M.B.B.S. DEGREE EXAMINATION.

(Common to all Regulations)

Part I

Paper III — MICROBIOLOGY — I

Time : Three hours

Maximum : 100 marks

Two and a half hours

Sec. A & Sec. B : 70 marks

for Sec. A & Sec. B

Section C : 30 marks

Separate answer books must be used
for Sections A and B.

Section C must be answered separately on the answer
sheet provided as per the instructions on the first page.

Answer ALL questions.

SECTION A — (35 marks)

1. Describe the Pathogenicity and Laboratory
diagnosis of *Bacillus anthracis*. (15)

2. Write briefly on : (4 × 5 = 20)

- (a) Bacterial growth curve
- (b) Transduction
- (c) Immunofluorescence
- (d) Dimorphic fungi.

SECTION B — (35 marks)

3. Enumerate the important cestodes of man.
Describe the life cycle and laboratory diagnosis of
Taenia solium. (15)

4. Write briefly on : (4 × 5 = 20)

- (a) Interferon
- (b) Significant Bacteriuria
- (c) Enteroviruses
- (d) IgG.