

April-2001

[KD 540]

Sub. Code : 4061

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

(Non-Semester)

(Revised Regulations)

Paper I — GENERAL MICROBIOLOGY,  
IMMUNOLOGY, SYSTEMATIC MICROBIOLOGY

Time : Three hours

Maximum : 100 marks

Two and a half hours

Theory : 70 marks

for Theory and 30 minutes

MCQ : 30 marks

for MCQ.

MCQ must be answered separately on the  
answer sheet provided.

Answer ALL questions.

Draw suitable diagrams wherever necessary.

1. Define antibody. Describe antibody synthesis in human immune system. Enumerate the functions of different immunoglobulins. (15)

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

- (a) Plasmids
- (b) Anaerobic methods of cultivation
- (c) Bacterial filters
- (d) Bacterial flagella.

3. Enumerate organisms causing Diarrhoea. Describe the Pathogenicity, Laboratory diagnosis and Prophylaxis of Vibrio Cholerae. (15)

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

- (a) Atypical mycobacteria
- (b) Satellitisms
- (c) TRIC agents
- (d) Toxins and enzymes of strepto pyogenes.

[KE 540]

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Paper I — GENERAL MICROBIOLOGY,  
IMMUNOLOGY, SYSTEMATIC MICROBIOLOGY

Time : Three hours                      Maximum : 100 marks  
Two and a half hours                      Theory : 70 marks  
for Theory and 30 minutes                      MCQ : 30 marks  
for MCQ

MCQ must be answered separately  
on the answer sheet provided.

Answer ALL questions.

Draw suitable diagrams wherever necessary.

1. What is hyper sensitivity? How do you classify various types of hypersensitivity reactions? Describe Type I Reaction. (15)

2. Write short notes on : (4 × 5 = 20)  
(a) Transport media  
(b) Testing of disinfectants  
(c) Bacterial capsule  
(d) Autoimmunity.

3. Classify Mycobacteria. Describe the pathogenecity, laboratory diagnosis and prophylaxis of pulmonary tuberculosis. (15)

4. Write short notes on : (4 × 5 = 20)  
(a) Weil Felix Reaction  
(b) Helico bacter pylori  
(c) Malignant Pustule  
(d) General characters of family entero bacteriaceae.

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Time : Three hours

Maximum : 100 marks

Two and a half hours

Theory : 70 marks

for Theory and 30 minutes

MCQ : 30 marks

for MCQ

MCQ must be answered separately on the answer sheet  
provided.

Section A and B to be answered in the same answer  
book.

Answer ALL questions.

Draw suitable diagrams wherever necessary.

SECTION A

1. Enumerate the various Antigen-Antibody  
reactions and discuss in detail precipitation reactions  
with suitable examples. (15)

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

- (a) Gene transfer in bacteria.
- (b) Methods of transmission of infection.
- (c) Sterilisation by chemical agents.
- (d) Protocol for safe blood transfusion.

SECTION B

3. What is a biological Weapon? Enumerate the  
various micro organisms that can be used as  
bioweapons. Discuss the pathogenesis, laboratory  
diagnosis and prophylaxis of Bacillus anthrax. (15)

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

- (a) Non-suppurative complications of strepto-  
coccus pyogenes.
- (b) Prophylactic measures during an epidemic of  
cholera.
- (c) Trench fever.
- (d) Laboratory diagnosis in anaerobic infections.

October-2003

[KJ 540]

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II. Write short notes on :

(10 × 5 = 50)

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

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Paper I — GENERAL MICROBIOLOGY,  
IMMUNOLOGY, SYSTEMATIC MICROBIOLOGY

Time : Three hours

Maximum : 100 marks

Theory : Two hours and forty minutes Theory : 80 marks

M.C.Q. : Twenty minutes

M.C.Q. : 20 marks

Answer ALL questions.

Draw suitable diagrams wherever necessary.

I. Write Essay :

(2 × 15 = 30)

(1) Classify hypersensitivity reactions explaining the reasons. Give a full account of anaphylaxis.

(2) Define pyrexia of unknown origin. Enumerate the organisms causing PUO. Describe the laboratory diagnosis of Typhoid Fever.

- (a) Mutations
- (b) Tyndalisation
- (c) Bacterial capsule
- (d) Bacterial growth curve
- (e) Immuno fluorescence tests
- (f) Neil Mooser reaction
- (g) Frei's test
- (h) Prophylaxis against tetanus
- (i) Toxins of streptococcus
- (j) Nosocomial infection.

August-2004

[KL 540]

Sub. Code : 4061

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

(Non-Semester)

(Revised Regulations)

Paper I — GENERAL MICROBIOLOGY,  
IMMUNOLOGY, SYSTEMATIC MICROBIOLOGY

Time : Three hours

Maximum : 100 marks

Theory : Two hours and  
forty minutes

Theory : 80 marks

M.C.Q. : Twenty minutes

M.C.Q. : 20 marks

Answer ALL questions.

Draw suitable diagrams wherever necessary.

I. Write Essay : (2 × 15 = 30)

(1) Enumerate different methods of Gene transfer. Describe the genetic mechanisms of drug resistance in bacteria.

(2) Define Dysentery and enumerate its causative agents. Describe the laboratory diagnosis of Bacillary dysentery.

II. Write Short notes on : (10 × 5 = 50)

- (a) Bacterial Flagella
- (b) Anaerobic culture methods.
- (c) Polymerase chain reaction.
- (d) Mechanisms of autoimmunization.
- (e) T lymphocytes.
- (f) Type IV hypersensitivity reactions.
- (g) Staphylococcal virulence factors.
- (h) Laboratory diagnosis of enteric fever.
- (i) Mantoux test.
- (j) Malignant pustule.





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II. Write short notes on : (10 × 5 = 50)

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

Revised (Non-Semester) Regulations

Paper I — GENERAL MICROBIOLOGY,  
IMMUNOLOGY, SYSTEMATIC BACTERIOLOGY

Time : Three hours                      Maximum : 100 marks

Theory : Two hours and                      Theory : 80 marks  
forty minutes

M.C.Q. : Twenty minutes                      M.C.Q. : 20 marks

Answer ALL questions.

Draw suitable diagrams wherever necessary.

I. Write Essay : (2 × 15 = 30)

(1) Discuss the various methods of transfer of genetic material in bacteria with examples.

(2) Discuss the etiology, pathogenesis, laboratory diagnosis, prophylaxis and treatment of Enteric fever.

- (a) Innate immunity
- (b) Type II hypersensitivity reactions
- (c) Secretory immuno globulins
- (d) Selective media
- (e) Elisa test
- (f) Non venereal treponematoses
- (g) Escherichia coli associated diarrhoea
- (h) Leptospirosis
- (i) TRIC agents
- (j) Laboratory diagnosis of pulmonary tuberculosis.









FEBRUARY 2008

[KS 540]

Sub. Code : 4061

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

Revised (Non-Semester) Regulations

Paper I — GENERAL MICROBIOLOGY,  
IMMUNOLOGY AND SYSTEMATIC BACTERIOLOGY

Q.P. Code: 524061

Time : Three hours

Maximum : 100 marks

Theory : Two hours and  
forty minutes

Theory : 80 marks

M.C.Q. : Twenty minutes

M.C.Q. : 20 marks

Answer ALL questions.

Draw suitable diagrams wherever necessary.

I. Essay:

1. Define and classify hypersensitivity. Describe  
Type I hypersensitivity reaction. (15)

2. Classify vibrios. Describe the pathogenesis and  
laboratory diagnosis of cholera. Add a note on  
prophylaxis. (15)

II. Write short notes on:

(10 × 5 = 50)

- (a) Bacterial spore.
  - (b) Sterilisation by radiation.
  - (c) Bacterial conjugation.
  - (d) Laboratory diagnosis of Leptospirosis.
  - (e) Monoclonal antibodies.
  - (f) Antibiotic sensitivity test.
  - (g) Bacterial growth curve.
  - (h) Hot air oven.
  - (i) Helicobacter pylori.
  - (j) Immunofluorescence.
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