

APRIL 2001

[KD 232]

M.Sc. (Non-Clinical) DEGREE EXAMINATION.

Final — Branch V — Microbiology

Paper II — SYSTEMATIC BACTERIOLOGY AND
MYCOLOGY

Time : Three hours

Maximum : 100 marks

Answer ALL questions.

All questions carry equal marks.

1. Enumerate the causative agents of Urinary tract infection. Discuss the laboratory diagnosis of Urinary tract infection. (25)
2. Classify Streptococci and describe the infections caused by it. (25)
3. Describe the laboratory diagnosis of cryptococcal meningitis. (25)

4. Write briefly on :

(5 × 5 = 25)

- (a) Elek's test
 - (b) B.C.G. Vaccine
 - (c) Bacteriophage typing
 - (d) Toxins of clostridium tetani
 - (e) Dimorphic fungi.
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SEPTEMBER 2002

[KH 232]

M.Sc. (Non-Clinical) DEGREE EXAMINATION.

Final — Branch V — Microbiology

Paper II — SYSTEMATIC BACTERIOLOGY
AND MYCOLOGY

Time : Three hours

Maximum : 100 marks

Answer ALL questions.

All questions carry equal marks.

1. Classify Mycobacteria. Describe the laboratory diagnosis and prophylaxis of tuberculosis. (25)
2. Name the diseases transmitted through food. How will you diagnose a case of enteric fever? (25)
3. Describe the epidemiology and diagnosis of mycetoma. (25)

4. Write briefly on :

(5 × 5 = 25)

- (a) VDRL test
- (b) Mycotoxins
- (c) DPT vaccine
- (d) Rhino sporidiosis
- (e) Fungal staining techniques.

APRIL 2003

[KI 232]

Sub. Code : 2977

M.Sc. (Non-clinical) DEGREE EXAMINATION.

Final

Branch V — Microbiology

Paper II — SYSTEMATIC BACTERIOLOGY AND
MYCOLOGY

Time : Three hours

Maximum : 100 marks

Answer ALL questions.

All questions carry equal marks.

1. Name the bacteria which cause diarrhoea in man. Describe the laboratory diagnosis and prophylaxis of cholera. (25)
 2. Classify fungi. Write in detail on dermatophytes. (25)
 3. Describe the epidemiology and laboratory diagnosis of Leptospirosis. (25)
 4. Write briefly on : (5 × 5 = 25)
 - (a) Candida
 - (b) Nosocomial infection.
 - (c) Helicobacter pylori.
 - (d) Coagulase test.
 - (e) Malignant pustule.
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APRIL 2004

[KK 232]

Sub. Code : 2977

SECTION B

M.Sc. (Non-Clinical) DEGREE EXAMINATION.

Final

Branch V — Microbiology

Paper II — SYSTEMIC BACTERIOLOGY AND
MYCOLOGY

Time : Three hours

Maximum : 100 marks

Sec. A & B : Two hours and
forty minutes

Sec. A & B : 80 marks

Sec. C : Twenty minutes

Sec. C : 20 marks

Answer Sections A and B in the SAME Answer Book.

Answer Section C in the Answer Sheet provided.

SECTION A

1. Describe the Morphology, Laboratory Diagnosis and prevention of leptospirosis. (15)
2. Classify Fungi. Describe the laboratory diagnosis of cryptococcosis. (15)

3. Write short notes on the following : (10 × 5 = 50)

- (a) Cholera vaccines
- (b) Camp test
- (c) Anti-fungal agents
- (d) Blastomycosis
- (e) Rhizopus
- (f) Weil-Felix test
- (g) Legionella pneumophila
- (h) Classification of shigella
- (i) Clostridium difficile
- (j) Corynebacterium diphtheriae staining methods.

MARCH 2005

[KM 232]

Sub. Code : 2977

M.Sc. (Non-clinical) DEGREE EXAMINATION.

Branch V — Microbiology

Final

Paper II — SYSTEMATIC BACTERIOLOGY AND
MYCOLOGY

Time : Three hours Maximum : 100 marks

Sec. A & B : Two hours and Sec. A & B : 80 marks
forty minutes

Section C : Twenty minutes Section C : 20 marks

Answer Sections A and B in the SAME Answer Book.

Answer Section C in the answer sheet provided.

SECTION A — (2 × 15 = 30 marks)

1. List and classify mycobacteria. Write in detail about the morphology, cultural characters and laboratory diagnosis of mycobacterium tuberculosis. (15)
2. Classify streptococci. Discuss in detail about the morphology, cultural characters and laboratory diagnosis of streptococcus pyogenes. (15)

SECTION B — (10 × 5 = 50 marks)

3. Write short notes on :
 - (a) Enterotoxigenic escherichia coli
 - (b) DPT vaccine
 - (c) Helicobacter pylorii
 - (d) Dimorphic fungi
 - (e) Pneumo cystis carinii
 - (f) Standard tests for syphilis
 - (g) Afla toxins
 - (h) Exotoxins producing gram negative bacteria
 - (i) Candida
 - (j) Infantile botulism.

MARCH 2006

[KO 232]

Sub. Code : 2977

M.Sc. (Non-clinical) DEGREE EXAMINATION.

Branch V — Microbiology

Final

Paper II — SYSTEMATIC BACTERIOLOGY AND
MYCOLOGY

Time : Three hours Maximum : 100 marks

Sec. A & B : Two hours and Sec. A & B : 80 marks
forty minutes

Sec. C : Twenty minutes Sec. C : 20 marks

Answer Sections A and B in the SAME Answer Book.

Answer Section C in the answer sheet provided.

SECTION A — (2 × 15 = 30 marks)

1. How do you classify corynebacterium diphtheria and write about the laboratory diagnosis and prophylaxis of Diphtheria. (15)
2. Name various genera of Dermatophytes disease. Describe the laboratory diagnosis of infections caused by Dermatophytes. (15)

SECTION B — (10 × 5 = 50 marks)

3. Write short notes on :

- (a) Dimorphism
- (b) Tric agents

- (c) Sabouraud's dextrose agar
- (d) Lepromin test
- (e) Satellitism
- (f) Plasmodium Falciparum
- (g) Nagler's reaction
- (h) Mycetoma
- (i) Streptococci viridans
- (j) Q Fever.

September-2007

[KR 232]

Sub. Code : 2977

M.Sc. (Non-Clinical) DEGREE EXAMINATION.

Final

Branch V — Microbiology

Paper II — SYSTEMIC BACTERIOLOGY AND
MYCOLOGY

Time : Three hours Maximum : 100 marks

Descriptive : Two hours and Descriptive : 80 marks
forty minutes

Objective : Twenty minutes Objective : 20 marks

Answer ALL questions.

I. Essay questions :

(1) Classify spirochaetes. Discuss in detail about the morphology, cultural characteristics and lab diagnosis of syphilis. (20)

(2) Describe laboratory diagnosis and prevention of enteric fever. (15)

(3) Classify dermatophytes. Discuss laboratory diagnosis of infections produced by dermatophytes. (15)

II. Short notes :

(6 × 5 = 30)

- (a) Coagulase test.
 - (b) DPT vaccine.
 - (c) Mycotoxins.
 - (d) Helicobacter pylori.
 - (e) Nocardia.
 - (f) Standard tests for syphilis.
-

M.Sc (Non Clinical) DEGREE EXAMINATION

FINAL

Branch V –MICROBIOLOGY

Paper II – SYSTEMIC BACTERIOLOGY AND MYCOLOGY

Q.P. Code : 282977

Time : Three hours

Maximum : 100 marks

Answer All questions.

I. Essays:

(2 X 20=40)

1. a) Enumerate the diarrhoea causing bacterial organisms.
b) Write in detail morphology, cultural characteristics, classification and lab diagnosis of cholera due to V.cholerae.
2. a) Name the fungal agents responsible for causing deep mycotic infections.
b) Describe in detail the fungal organisms causing systemic mycoses.

II. Write Short Notes on :

(10X 6 = 60)

1. MRSA.
2. Haemolysins of stneptococuss.
3. Concentnation methods for M.tuberculosis.
4. Standard tests for syphilis.
5. UTI due to E. coli.
6. Lab diagnosis of Brucella.
7. Dermatophytes.
8. Fungal opportunistic infections.
9. Weil-Felix test.
10. Lab diagnosis of Cl.tetani.

[KZ 1011]

Sub. Code: 2977

M.Sc NON-MEDICAL DEGREE EXAMINATION

FINAL YEAR

BRANCH V - MICROBIOLOGY

PAPER II – SYSTEMATIC BACTERIOLOGY AND MYCOLOGY

Q.P. Code : 282977

**Time : 3 hours
(180 Min)**

Maximum : 100 marks

Answer ALL questions in the same order.

I. Elaborate on :

**Pages Time Marks
(Max.) (Max.) (Max.)**

- | | | | |
|--|----|----|----|
| 1. The morphology, cultural characteristics, pathogenesis and lab diagnosis of <i>Shigella dysenteriae</i> . | 17 | 40 | 20 |
| 2. The morphology, cultural characteristics, pathogenesis, lab diagnosis of <i>Corynebacterium diphtheria</i> . Write about DPT vaccine. | 17 | 40 | 20 |

II. Write notes on :

- | | | | |
|--|---|----|---|
| 1. Preparation and uses of Robertson's cooked meat medium. | 4 | 10 | 6 |
| 2. Uses of Rabbit in Microbiology. | 4 | 10 | 6 |
| 3. Collection and processing of blood for culture. | 4 | 10 | 6 |
| 4. ZN staining. | 4 | 10 | 6 |
| 5. Significant bacteriuria. | 4 | 10 | 6 |
| 6. Determination of MIC of an antibiotic and its uses. | 4 | 10 | 6 |
| 7. Lab diagnosis of mycotic diseases. | 4 | 10 | 6 |
| 8. Principle and uses of an autoclave. | 4 | 10 | 6 |
| 9. Quality control in media preparation. | 4 | 10 | 6 |
| 10. Lab diagnosis of cholera. | 4 | 10 | 6 |

[LB 1012]

OCTOBER 2012

Sub. Code: 2977

M.Sc NON-MEDICAL DEGREE EXAMINATION

FINAL YEAR

BRANCH V - MICROBIOLOGY

PAPER II – SYSTEMATIC BACTERIOLOGY AND MYCOLOGY

Q.P. Code : 282977

Time : 3 hours
(180 Min)

Maximum : 100 marks

Answer ALL questions in the same order.

I. Elaborate on :

Pages Time Marks
(Max.)(Max.)(Max.)

- | | | | |
|---|----|----|----|
| 1. Elaborate on various methods adopted for culture of bacteria with special reference to quantitative analysis of Urine. | 17 | 40 | 20 |
| 2. Elaborate on various anaerobic culture methods with special reference to Mc-Intosh Felde's Anaerobic jar | 17 | 40 | 20 |

II. Write Notes on :

- | | | | |
|--|---|----|---|
| 1. Chromoblastomycosis. | 4 | 10 | 6 |
| 2. Lepromin Test. | 4 | 10 | 6 |
| 3. Cryptococcus neoformans. | 4 | 10 | 6 |
| 4. Serological Tests for Syphilis and in detail about V.D.R.L. Test. | 4 | 10 | 6 |
| 5. Classification of Fungi. | 4 | 10 | 6 |
| 6. Weil-Felix Reaction. | 4 | 10 | 6 |
| 7. Zygomycoses. | 4 | 10 | 6 |
| 8. Helicobacter pylori. | 4 | 10 | 6 |
| 9. Laboratory diagnosis of Dermatophytoses. | 4 | 10 | 6 |
| 10. Laboratory diagnosis of Cholera. | 4 | 10 | 6 |

[LD 1013]

OCTOBER 2013

Sub. Code: 2977

M.Sc NON-MEDICAL DEGREE EXAMINATION

FINAL YEAR

BRANCH V - MICROBIOLOGY

PAPER II – SYSTEMATIC BACTERIOLOGY AND MYCOLOGY

Q.P. Code : 282977

Time : 3 hours

Maximum : 100 marks

Answer ALL questions

I. Elaborate on :

(2X20=40)

1. Elaborate on various biochemical reactions used in identification of bacteriae.
2. Elaborate on collection of Blood, transport, plating, identification of Pathogen and interpretation of the result.

II. Write Notes on :

(10X6=60)

1. Laboratory diagnosis of Bruellosis in man.
2. Pneumocystis carinii.
3. Laboratory diagnosis of Mycobacterium tuberculosis.
4. Tinea versicolor.
5. Clasification and identification of Atypical Mycobacteria.
6. Candida albicans.
7. Significant Bacteriuria.
8. Blastomyces dermatidis.
9. Helicobacter pylori.
10. Rhinosporidium seeberi.
