

**APRIL 1991**

**415**

M.Sc. DEGREE EXAMINATION, APRIL 1991.

Branch V — Microbiology

Final

SYSTEMATIC BACTERIOLOGY AND MYCOLOGY

Time : Three hours.

Answer ALL the questions.

All questions carry equal marks.

1. Describe the laboratory diagnosis of Cryptococcal Meningitis.
  2. Describe the pathogenesis, epidemiology and laboratory diagnosis of anthrax.
  3. Describe the various tests used in differentiation within the Genus Brucella.
  4. Write briefly on :
    - (a) Vincent's angina.
    - (b) Toxic shock syndrome.
    - (c) Listeriosis.
-

## SEPTEMBER 1991

415

M.Sc. DEGREE EXAMINATION, SEPTEMBER 1991.

(Non-Clinical — Subjects for Science Graduates)

Branch V — Microbiology — Final

SYSTEMATIC BACTERIOLOGY AND MYCOLOGY

Time : Three hours.

Maximum : 100 marks

Answer ALL questions.

All questions carry equal marks.

1. Describe the pathogenesis, laboratory diagnosis and prophylaxis of Diphtheria.
  2. Classify dermatophytes. Outline each of these causing infections in man with special reference to laboratory diagnosis.
  3. Discuss the causes and diagnosis of bacterial diarrhoeas.
  4. Write briefly on :
    - (a) *Clostridium difficile*.
    - (b) *Bacteriodes*.
    - (c) *Candida albicans*.
-

APRIL 1992

M.Sc. (NON CLINICAL) DEGREE EXAMINATION  
FACULTY OF MEDICINE  
FINAL  
BRANCH V-MICROBIOLOGY

Paper II - Systematic Bacteriology and  
Mycology

Time: Three Hours

Maximum Marks:100

Answer All questions

All questions carry Equal Marks

1. What are 'Neo-Enteric pathogens'? Discuss the morphology, cultural characters, pathogenicity and laboratory diagnosis of *Helicobacter pylori*.
  2. Classify and enumerate the fungi responsible for subcutaneous Mycoses. Discuss the laboratory diagnosis of any one of them.
  3. Classify the genus *Mycobacterium*. Discuss the current status of bacteriology and Vaccinology of *Mycobacterium leprae*.
  4. Write short notes on:
    - a. *Ureoplasma ureolyticum*.
    - b. GLC and laboratory diagnosis of Anaerobic infections.
    - c. Hair baiting test.
    - d. Aflatoxins.
-

M.Sc. DEGREE EXAMINATION, SEPTEMBER, 1992

(Non clinical subjects for Science graduates)

BRANCH V - MICROBIOLOGY FINAL

Paper II - SYSTEMATIC BACTERIOLOGY AND MYCOLOGY

Time: Three hours                      Maximum: 100 marks

Answer ALL questions

All questions carry equal marks

1. Discuss the cultivation, pathogenicity and laboratory diagnosis of mycobacterium leprae. Add a note on leprosy vaccines.
  2. Enumerate the agents of Eumycotic Mycetomas. Discuss their differentiation and mycological diagnosis.
  3. Discuss the causes and diagnosis of bacterial diarrhoeas.
  4. Write briefly on:
    - (a) Grouping of streptococci
    - (b) Histological staining procedures in mycological diagnosis.
    - (c) Estimation of bacterial contamination of air.
-

APRIL 1993

RS 166)

M.Sc. (NON-CLINICAL) DEGREE EXAMINATION  
BRANCH -V MICROBIOLOGY FINAL

SYSTEMATIC BACTERIOLOGY AND MYCOLOGY

Time : Three hours

Maximum:100 marks

Answer All Questions

All Questions Carry equal marks.

1. Describe the laboratory diagnosis of vibrio cholera.  
Mention the preparation and standardization of  
cholera vaccine. (25)
  2. Discuss the various causes and diagnosis of Bacterial  
Meningitis. (25)
  3. Classify Fungi. Describe the pathogenesis and  
laboratory diagnosis of Candida albicans. (25)
  4. Write short notes on: ( 5 \* 5 = 25)
    - a. Blood Culture
    - b. Non-Venereal treponematoses
    - c. Opportunistic Fungi
    - d. Gas gangrene
    - e. Food poisoning
-

## NOVEMBER 1993

PR 467

M.SC (NON CLINICAL) DEGREE EXAMINATION  
FINAL BRANCH V MICROBIOLOGY  
PAPER II SYSTEMATIC BACTERIOLOGY AND MYCOLOGY

Time : Three hours

Max.marks:100

Answer All Questions

All Questions Carry equal marks

1. Mention the etiologic agents of mycetoma and describe its pathogenesis and laboratory diagnosis. (25)
  2. Classify anaerobes; discuss the current taxonomy of medically important Non Sporing anaerobes; add a brief note on their role as human pathogens. (25)
  3. Enumerate the infections caused by *Candida albicans* and discuss their laboratory diagnosis. (25)
  4. Write short notes on: ( 5 x 5=25)
    - a. *Campylobacter pylori*
    - b. Histoplasmosis
    - c. TRIC Agents
    - d. Organisms causing food poisoning
    - e. Role of Fungi in pulmonary disease.
-

**APRIL 1994**

**B.Sc (NON CLINICAL) DEGREE EXAMINATION  
FINAL BR V MICROBIOLOGY**

**PAPER II SYSTEMIC BACTERIOLOGY AND MYCOLOGY**

**Time:** Three hours

**Max.marks:** 100

Answer ALL questions

All questions carry equal marks

1. Classify Fungi. Give a brief account of 'Dimorphic Fungi' (25)
  2. Describe the pathogenesis and Laboratory diagnosis of gas gangrene in man. Add a note on its prophylaxis. (25)
  3. Discuss the various causes and laboratory diagnosis of bacterial diarrhoea. (25)
  4. Write short notes on: (5 x 5 = 25)
    - a. Non-specific urethritis
    - b. Enterotoxin of Esch.coli
    - c. Human mycoplasma infections
    - d. Opportunistic fungal infections
    - e. group Beta streptococci
-

**APRIL 1995**

[SB 3 2 8]

**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 clostridium and discuss in detail laboratory diagnosis and prophylaxis of Tetanus. (25)
  2. Classify the genus Salmonella and write briefly about antigenic variation of Salmonella. (25)
  3. Give a brief account of opportunistic systemic mycoses and discuss their role in human infection. (25)
  4. Write short notes on : (5 × 5 = 25)
    - (a) Piedra.
    - (b) Candidosis.
    - (c) Legionella Pneumophila.
    - (d) Moraxella Lacunata.
    - (e) Lancefield classification of Streptococcus pyogenes.
-



**NOVEMBER 1995**

MB 329

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

*Final - Branch V - Microbiology*

*Paper II - SYSTEMATIC BACTERIOLOGY AND MYCOLOGY*

*Time: Three hours*

*Max. marks: 100*

*Answer All Questions*

*All Questions carry equal marks*

1. *Classify Mycoplasma and discuss in detail the pathogenesis and laboratory diagnosis in-human infection. (25)*
  2. *Discuss the various causes and laboratory diagnosis of bacterial food poisoning. (25)*
  3. *Classify Deep Mycoses and write briefly their pathogenesis in man. (25)*
  4. *Write short notes on: (5x5=25)*
    - (a) *Zygo Mycosis*
    - (b) *Mycotoxins*
    - (c) *Eltor Vibrios*
    - (d) *Anaerobic Cocci*
    - (e) *Edward Siella*
-

**OCTOBER 1996**

PK 225

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

**Final - Branch V - Microbiology**

**Paper II - SYSTEMATIC BACTERIOLOGY AND MYCOLOGY**

**Time: Three hours**

**Max.marks:100**

**Answer All Questions**

**All Questions carry equal marks**

1. Enumerate the virulence factors of *Staphylococcus aureus* and their pathological roles. Give a concise account of the laboratory diagnosis and the behaviour of *Staphylococci* towards antibiotics. (25)
  2. Give an account of the diarrhoeagenic *Escherichia coli* stressing on their pathogenesis: laboratory diagnosis, epidemiology, treatment and control. (25)
  3. Give an account of subcutaneous mycosis in man. (25)
  4. Write briefly on: (5x5=25)
    - (a) *Borrelia burgdorferi*
    - (b) *Clostridium difficile*
    - (c) Stains used in mycology
    - (d) Rapid diagnostic methods in blood culture techniques
    - (e) Hair baiting technique in mycology.
-

APRIL 1997

MP 290

M.Sc.(Non-Clinical) DEGREE EXAMINATION

Final - Branch V - Microbiology

Paper II - SYSTEMATIC BACTERIOLOGY AND MYCOLOGY

Time: Three hours

Max.marks:100

Answer All Questions

1. Classify vibrios. Discuss the pathogenesis of cholera and recent developments in cholera vaccine. (25)
  2. Discuss the aetiology, laboratory diagnosis and prophylaxis of diphtheria. (25)
  3. Discuss the aetiology and laboratory diagnosis of fungal meningitis. (25)
  4. Write briefly on: (5x5=25)
    - (a) Rhinosporidium seeberi
    - (b) Oxidase test
    - (c) Fungal stains
    - (d) Dermatophytes
    - (e) Weil Felix reaction.
-

APRIL 2000

[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.

1. Describe the pathogenesis and laboratory diagnosis of gas gangrene in man. Add a note on its prophylaxis. (25)
  2. Classify the genus salmonella and write briefly about antigenic variation of salmonella. (25)
  3. Discuss the various causes and laboratory diagnosis of bacterial food poisoning. (25)
  4. Write briefly on : (5 × 5 = 25)
    - (a) Piedre
    - (b) Anaerobic cocci
    - (c) Opportunistic infection
    - (d) Histoplasmosis
    - (e) TRIC agents.
-