

April-2001

[KD 121]

Sub. Code : 2019

M.D. DEGREE EXAMINATION.

Branch IV — Microbiology

(Revised Regulation)

Paper IV — MYCOLOGY AND APPLIED  
MICROBIOLOGY

Time : Three hours

Maximum : 100 marks

Answer ALL questions.

1. Discuss the opportunistic fungal infections and their diagnosis. (25)
2. Discuss the lab steps in establishing the aetiology of Diarrhoeal diseases. (25)
3. Write short notes on : (5 × 10 = 50)
  - (a) Mycotic mycetoma.
  - (b) Radio immuno assay.
  - (c) AIDS sampling in Hospital wards.
  - (d) Chlamydo spores.
  - (e) Mycotoxins.

November-2001

[KE 121]

Sub. Code : 2019

M.D. DEGREE EXAMINATION.

(Revised Regulations)

Branch IV — Microbiology

Paper IV — MYCOLOGY AND APPLIED  
MICROBIOLOGY

Time : Three hours

Maximum : 100 marks

Answer ALL the questions.

1. Define the term "PANDEMIC". List out the diseases that caused pandemics and discuss the etiology, pathogenesis, laboratory diagnosis and preventive measures for any one of them. (25)
2. Discuss the etiology, pathogenesis and laboratory diagnosis of fungal infections of hair in man. (25)
3. Write briefly on : (5 × 10 = 50)
  - (a) Nucleic acid amplification technology.
  - (b) Mucormycosis.
  - (c) Fungal toxins.
  - (d) Pathogenic yeasts.
  - (e) Blood culture.

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March-2002

[KG 121]

Sub. Code : 2019

M.D. DEGREE EXAMINATION.

Branch IV — Microbiology

Paper IV — MYCOLOGY AND APPLIED  
MICROBIOLOGY

Time : Three hours

Maximum : 100 marks

Answer ALL the questions.

1. Discuss the etiology, pathogenesis and prevention of NOSOCOMIAL DIARRHOEA. Write notes on hospital antibiotic policy and its importance. (25)
2. Enumerate the dimorphic fungi you know. Describe the morphology, cultivation, pathogenesis and laboratory diagnosis of sporotrichosis in man. (25)
3. Write briefly on : (5 × 10 = 50)
  - (a) Milk borne diseases and their prevention.
  - (b) Antifungal drug susceptibility testing methods.
  - (c) Lipophilic fungi.
  - (d) Genetic engineering.
  - (e) Scope and limitations of immunological studies on TWINS.

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September-2002

[KH 121]

Sub. Code : 2019

M.D. DEGREE EXAMINATION.

(Revised Regulations)

Branch IV — MICROBIOLOGY

Paper IV — MYCOLOGY AND APPLIED  
MICROBIOLOGY

Time : Three hours

Maximum : 100 marks

Answer ALL questions.

1. Give an account of medically important candida with special reference to recent developments. (25)
  2. Discuss the rapid diagnostic methods in bacterial diseases. (25)
  3. Write short notes on : (5 × 10 = 50)
    - (a) Chromoblastomycosis
    - (b) Arthropodes of medical importance
    - (c) Universal precautions
    - (d) Sterilisation of operation theatre
    - (e) Uses of guinea pig in laboratory medicine.
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[KJ 121]

Sub. Code : 2019

**M.D. DEGREE EXAMINATION.**

(Revised Regulations)

Branch IV — Microbiology

**Paper IV — MYCOLOGY AND APPLIED  
MICROBIOLOGY**

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

M.C.Q. must be answered **SEPARATELY** on the  
answer sheet provided as per the instructions on the  
first page of M.C.Q. Booklet.

Answer **ALL** questions.

Draw suitable diagrams wherever necessary.

1. Discuss the methods for infectious waste  
management in hospitals and laboratories.                      (15)

2. Discuss the etiology, pathogenesis and laboratory  
diagnosis of mycotic mycetoma.                      (15)

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

(a) DNA vaccines.

(b) Probiotics.

(c) Typing methods for epidemiological  
investigation.

(d) Antibiotics for multi resistant gram positive  
infections.

(e) SARS.

(f) Mycotic keratitis.

(g) Zygomycosis.

(h) *Pseudallescheria boydii*.

(i) Perinatal transmission, diagnosis and  
prevention of HIV infection.

(j) Antifungal agents and susceptibility testing.

April-2004

[KK 121]

Sub. Code : 2019

M.D. DEGREE EXAMINATION.

(Revised Regulations)

Branch IV — Microbiology

Paper IV — MYCOLOGY AND APPLIED  
MICROBIOLOGY

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.

A. Essay :                                    (2 × 15 = 30)

(1) Discuss the laboratory diagnosis of infections  
caused by dermatophytes.

(2) Describe the laboratory diagnosis of urinary  
tract infection.

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

(1) Laboratory diagnosis of pneumococcal  
pneumonia

(2) Food-borne botulism

- (3) Viral diarrhoeas
  - (4) Candida albicans
  - (5) Keratomycosis
  - (6) Prevention of hospital acquired infection
  - (7) Disc diffusion methods
  - (8) Segregation of waste
  - (9) Aspergillosis
  - (10) Infection control policy.
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[KL 121]

Sub. Code : 2019

**M.D. DEGREE EXAMINATION,**

(Revised Regulations)

Branch IV — Microbiology

**Paper IV — MYCOLOGY AND APPLIED  
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. Essay : (2 × 15 = 30)

(1) List all the fungal agents causing infection of Keratinized tissue in Man. Discuss the clinical manifestations and laboratory diagnosis of such infections.

(2) Discuss the establishment of quality control in microbiology.

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

(a) Dimorphic fungi.

(b) Probiotics.

(c) Perinatal transmission diagnosis and prevention of HIV.

(d) Antifungal agents and susceptibility testing.

(e) Interferons.

(f) R plasmids.

(g) Beta lactamases.

(h) Madura mycosis.

(i) SARS.

(j) Immunochromatographic tests.