March 2009

[KU 120] **Sub. Code: 2017**

M.D. DEGREE EXAMINATION

Branch IV – MICROBIOLOGY

(Common to all candidates)

Paper IV – MYCOLOGY AND APPLIED MICROBIOLOGY AND RECENT ADVANCES

Q.P. Code : 202017

Time : Three hours **Maximum : 100 marks**

Draw suitable diagram wherever necessary.

Answer ALL questions.

I. Essay questions : **(2 x 20 = 40)**

1. Define quality assurance. Discuss in detail quality control programmes for clinical microbiology laboratory.

2. Discuss antifungal susceptibility testing methods for candida species with their merits and demerits.

II. Write short notes on : **(10 x 6 = 60)**

1. Mycetoma.
2. DNA microarrays and its application.
3. Disc approximation 'D' test for staphylococci.
4. Histoplasmosis.
5. Fungal stains.
6. Surface mycoses.
7. Flow cytometry.
8. Immuno chromatography.
9. Amp 'C' – β lactamases in GNB.
10. Penicillium marneffi infection.

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September 2009

[KV 120] **Sub. Code: 2017**

M.D. DEGREE EXAMINATION

Branch IV – MICROBIOLOGY

(Common to all candidates)

Paper IV – MYCOLOGY AND APPLIED MICROBIOLOGY AND RECENT ADVANCES

Q.P. Code : 202017

Time : Three hours **Maximum : 100 marks**

Draw suitable diagram wherever necessary.

Answer ALL questions.

I. Essay questions : **(2 x 20 = 40)**

1. Discuss the recombinant genetic engineering techniques and its applications.

2. National Aids control organization policy of diagnosis of HIV infection. Add a note on HIV vaccines.

II. Write short notes on : **(10 x 6 = 60)**

1. Gene cloning
2. Biological weapons
3. Typing methods in bacteria
4. Non gonococcal urethritis
5. Salmonella food poisoning
6. ESBL detection in the laboratory
7. Newer fluroquinolones
8. Revised national tuberculosis control programme
9. Bacteriology of milk
10. Cytokines

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March 2010

[KW 120] **Sub. Code: 2017**

M.D. DEGREE EXAMINATION

Branch IV – MICROBIOLOGY

(Common to all candidates)

Paper IV – MYCOLOGY AND APPLIED MICROBIOLOGY AND RECENT ADVANCES

Q.P. Code : 202017

Time : Three hours **Maximum : 100 marks**

Draw suitable diagram wherever necessary.

Answer ALL questions.

I. Essay questions : **(2 x 20 = 40)**

1. Discuss important cytokines and their selected biologic effects.

2. Laboratory aids in the selection of antimicrobial therapy.

II. Write short notes on : **(10 x 6 = 60)**

1. Prions.
2. B.O.D. incubator.
3. Superficial mycoses.
4. Exospore.
5. Fc Farland tubes.
6. Jumping genes.
7. Opportunistic parasitic infections in AIDS.
8. Antiviral vaccines for HIV/AIDS.
9. Bioterrorism.
10. Biomedical waste disposal

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