

[LG 120]

APRIL 2015

Sub. Code: 2017

M.D. DEGREE EXAMINATION

BRANCH IV – MICROBIOLOGY

**PAPER IV – MYCOLOGY AND APPLIED MICROBIOLOGY
AND RECENT ADVANCES**

Q.P. Code : 202017

Time: Three Hours

Maximum: 100 marks

Answer ALL questions

I. Essay:

(2 x 10 = 20)

1. Enumerate and define Dimorphic Fungi. Describe the morphology, pathogenesis, laboratory diagnosis of *Coccidioides immitis*.
2. Describe the emerging and re-emerging infections in India.

II. Short Questions:

(8 x 5 = 40)

1. Revised National Tuberculosis Control Programme.
2. ESBL detection.
3. B.O.D. incubator.
4. *Sporothrix schenckii*.
5. Bacteriology of water.
6. Ventilator associated Pneumonia.
7. Incineration.
8. Recombinant vaccines.

III. Reasoning Out:

(4 x 5 = 20)

1. Warming of 10% KOH helps in the identification of fungi.
2. Hepatitis B infection is more infectious than HIV infection.
3. Stokes method of antibiogram is better than Kirby – Bauer disc diffusion method.
4. Cerebrospinal fluid should not be refrigerated before processing the sample for culture.

IV. Very Short Answers:

(10 x 2 = 20)

1. Swine flu vaccine.
2. Sclerotic bodies.
3. Hair perforation test.
4. Name four antifungal agents in azole group.
5. Causative agents of *Tinea corporis*.
6. General characteristic of macroconidia in dermatophytes.
7. Zoophilic fungi.
8. Biological false positive reaction
9. Anamnestic reaction.
10. Types of fungal spores.
