

**(LE 120)**

**APRIL 2014**

**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**

**I. Essay Questions:**

**(2X10=20)**

1. Discuss the causative agents, pathogenesis and laboratory diagnosis of Rhino cerebral mucormycosis.
2. Discuss the mechanism of action of Antibiotics acting on bacterial cell wall and development of drug resistance.

**II. Short Questions:**

**(8X5=40)**

1. Chromoblastomycosis.
2. Rhinosporidiosis
3. Oral thrush.
4. Sabourauds dextrose agar.
5. Mycotoxicosis.
6. Kirby Bauer disk diffusion method.
7. Differential coliform test.
8. Milk borne diseases.

**III. Reasoning Out:**

**(4X5=20)**

1. Histoplasma capsulatum appears as rounded form in host tissues and filamentous form in culture.
2. Pneumocystis jirovecii is a fungus and not a protozoon.
3. Mid stream urine sample is appropriate for bacterial culture.
4. Skin scrapings are examined after treatment with 10% Potassium hydroxide.

**IV. Very Short Answers:**

**(10X2=20)**

1. Penicillium marneffeii.
2. Aspergilloma.
3. Black piedra.
4. Mycetism.
5. Lobomycosis.
6. Echinocandins.
7. Adjuvant.
8. Injectable vaccine for Typhoid.
9. Ribotyping.
10. Transposons.

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