(LK 120)

MAY 2017

Maximum: 100 Marks

M.D. DEGREE EXAMINATION BRANCH IV – MICROBIOLOGY PAPER IV – MYCOLOGY AND APPLIED MICROBIOLOGY AND RECENT ADVANCES

Q.P.Code: 202017

Time: Three Hours

I. Essay Questions:

- 1. Define Nosocomial infections. Write in detail about Hospital infection control.
- 2. Enumerate the causative agents of Mycetoma. Describe the pathogenesis and laboratory diagnosis of Eumycotic mycetoma.

II. Short Questions:

- 1. Bioterrorism.
- 2. Laboratory diagnosis of Dermatophytes.
- 3. Rhinosporidium.
- 4. Antifungal susceptibility.
- 5. Bacteriology of milk.
- 6. National immunization schedule.
- 7. Blood stream infections.
- 8. Botulism.

III. Reasoning Out:

- 1. Cryptococcus neoformans is seen as black colonies on Bird seed agar.
- 2. Phage typing is used in epidemiological typing.
- 3. Superbugs are a great concern in health care system.
- 4. Subculture of Streptococcus pneumonia culture is difficult.

IV. Very Short Answers:

- 1. MMR vaccine.
- 2. Reynolds Braude phenomenon.
- 3. Nude mice.
- 4. Automated blood culture system.
- 5. Aflatoxin.
- 6. Ectothrix.
- 7. Causative agents of phaeohypomycosis.
- 8. Asteroid bodies.
- 9. Thioglycollate medium.
- 10. Sabin vaccine.

$(8 \times 5 = 40)$

 $(2 \times 10 = 20)$

(4 x 5 = 20)

(10 x 2 = 20)