Reg.No.:....

## PG Degree Supplementary Examinations in Microbiology (MD) -November 2016

Paper II - Bacteriology and Mycology

Time: 3 hrs

Max marks:100

(20)

(8x10=80)

- Answer all questions
- Draw diagrams wherever necessary

## Essays:

 Discuss newer genotypic and phenotypic methods for the diagnosis of mycobacterium tuberculosis and status of the newer diagnostic tools for tuberculosis.

## Short essays:

- 2. Outline serological classification of the genus leptospira and discuss the epidemiology and laboratory diagnosis of leptospira.
- 3. Discuss the criteria for diagnosis of various stages of syphilis including congenital syphilis.
- 4. Describe briefly yeast and yeast like fungi of medical importance. Outline various laboratory and biochemical methods to differentiate various yeasts.
- 5. What are mycotoxins. Discuss its role as biological warfare agents.
- 6. Outline classification of mycoplasma. Enumerate the infections caused by them and briefly discuss their morphology, virulence factor and laboratory diagnosis.
- 7. Classify non-sporing anaerobic bacteria of medical importance and describe its laboratory identification methods.
- 8. Enumerate fungi infecting lower respiratory tract in immunocompromized patients. Discuss the laboratory diagnosis of pulmonary aspergillosis.
- 9. Discuss the mechanism of action of various antifungal agents. Outline in-vitro anti fugal susceptibility testing methods.

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