

134-NR

M.D. DEGREE EXAMINATION – OCTOBER, 2014

MICROBIOLOGY

Paper-III : Virology, Mycology and Parasitology

Time: 3 Hours

Max. Marks:100

Note: Answer all questions

All questions carry equal marks

Draw neat diagrams wherever necessary

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WRITE SHORT ESSAYS ON THE FOLLOWING:

- 1) Discuss etiology, immunopathogenesis and laboratory diagnosis of swine origin influenza A virus
- 2) Enumerate Neurotropic Arboviruses in India. Outline their laboratory detection methods
- 3) Describe Tissue culture techniques in Viral isolation and Viral diagnosis
- 4) Briefly describe Cultivation techniques of *E. histolytica* and *Giardia*. Discuss immune response to *E. Histolytica* infection
- 5) Classify Cestodes. Discuss Pathophysiology of Neurocysticercosis with its laboratory diagnostic methods
- 6) Discuss mechanism of action of various Antifungal agents. Outline in-vitro Antifungal susceptibility testing methods
- 7) Enumerate fungi causing Subcutaneous Mycosis. Briefly outline laboratory diagnosis
- 8) Discuss immunopathogenesis of HIV. Write a note on obstacles faced in HIV vaccine development
- 9) Discuss Filariasis in India with Laboratory diagnostic methods
- 10) Discuss recent advances in Rabies vaccine

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