

**PG Degree Supplementary Examinations in Microbiology (MD) –**  
**November 2016**

**Paper III - Virology & Parasitology**

**Time: 3 hrs**

**Max marks:100**

- ***Answer all questions***
- ***Draw diagrams wherever necessary***

**Essays:** (20)

1. Describe epidemiology, and pathogenesis of recent dengue virus outbreaks in India. Discuss recent molecular methods and tissue culture methods in detection and identification of dengue viruses.

**Short essays:** (8x10=80)

2. Japanese B encephalitis in India and its rapid diagnostic methods.
3. Describe cell culture techniques in viral diagnosis.
4. Describe immune response to pathogenic free living amoebae. Describe life cycle and laboratory diagnosis of any one of them.
5. Recent scare of bird flu in south-east Asian countries and its threat mitigation measures.
6. Briefly describe cultivation techniques of *E. histolytica* and *giardia*. Discuss immune response to *E. histolytica* infection.
7. Classify cestodes. Discuss pathophysiology of neurocysticercosis with its laboratory diagnostic methods.
8. Discuss filariasis in India with its laboratory diagnostic methods.
9. Enumerate coccidian parasites frequently isolated from stool samples of immunocompro- -mized patients and discuss its rapid identification methods.

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