

**QP CODE: 402012**

**Reg No:.....**

**Final Year B.Sc MLT Degree Examinations September 2017**

**MYCOLOGY, VIROLOGY & APPLIED MICROBIOLOGY**

**Time: 3 Hours**

**Total Marks: 100**

- Answer all Questions.
- Draw Diagrams wherever necessary.

**Essay**

**(2x10=20)**

1. Name four agents causing hospital acquired infections. Describe in detail the methods of diagnosis, prevention and control of hospital acquired infections. (2+8)
2. Name four water borne pathogens. Describe the methods used in water bacteriology. (2+8)

**Short notes**

**(10x5=50)**

3. Dimorphic fungi.
4. Laboratory diagnosis of cryptococcal meningitis.
5. Antifungal susceptibility testing.
6. Methods of detection of viral growth in cell cultures.
7. Laboratory diagnosis of hepatitis B infection.
8. Use of embryonated egg for virus isolation.
9. Herpes simplex viruses.
10. Laboratory diagnosis of rabies.
11. Methods for detecting milk borne contaminants.
12. Automation in microbiology.

**Answer briefly**

**(10x3=30)**

13. Continuous cell lines.
14. Haemagglutination.
15. Viral assays.
16. Tzanck smear.
17. Common stains used in mycology.
18. Mucor mycosis.
19. Specimen collection and transport for diagnosing fungal infections.
20. Antibiotic resistance mechanisms.
21. Laboratory diagnosis of intravenous canula infections.
22. Chemiluminiscence assay.

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