

# 2016 Scheme

QP Code: 413019

Reg. No.....

## Fourth Year B.Sc. Medical Microbiology Degree Regular Examinations February 2021

### Paper XII - Clinical Microbiology

Time: 3 Hours

Total Marks: 100

- Answer all questions to the point neatly and legibly • Do not leave any blank pages between answers • Indicate the question number correctly for the answer in the margin space
- Answer all parts of a single question together • Leave sufficient space between answers
- Draw table/diagrams/flow charts wherever necessary

#### Essays

(2x15=30)

1. What are nosocomial infections or Hospital acquired infections. Discuss the steps taken to investigate and monitor an outbreak of nosocomial infections.
2. Describe the clinical types, etiological agents and laboratory diagnosis of meningitis

#### Brief Essays

(2x10=20)

3. Automated systems available for diagnosis of tuberculosis
4. What is quality control. Describe the various methods adopted for internal quality control in microbiology.

#### Short Answers

(6x5=30)

5. Discuss newer methods in bacterial examination of water.
6. Methodology of external quality assessment programme.
7. Recent advances in prevention of nosocomial infections.
8. Discuss Real time PCR and its application in clinical microbiology.
9. Bacteriological examination of air.
10. Next generation sequencing.

#### Comment on

(10x2=20)

11. Methods of bacteriological examination of milk.
12. Needle stick injuries in healthcare worker.
13. Recombinant DNA technology
14. Continuous cell lines.
15. Point of Care tests.
16. Testing strategies and national testing policies in HIV.
17. Class III Biosafety cabinet
18. Harmful effects of the normal microbial flora
19. Eijkman test
20. Method of sample collection in a catheterised patient

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