

QP Code: 311019

Reg. No.....

**Third Year B.Sc. Medical Microbiology Regular/Supplementary  
Examinations April 2022  
Systematic Bacteriology  
(2016 Scheme)**

**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*

**Essay**

**(2x15=30)**

1. Define zoonosis and enumerate the bacteria causing zoonosis. Explain the pathogenesis and laboratory diagnosis of brucellosis
2. Describe the virulence factors of staphylococcus aureus and their mechanism of action. Add a note on pathogenicity and lab diagnosis of it

**Short Essay**

**(2x10=20)**

3. Describe the pathogenesis and lab diagnosis of streptococcus pyogenes
4. Describe the pathogenesis and lab diagnosis of leptospirosis

**Short Answers**

**(6x5=30)**

5. Viridans streptococci
6. Lab diagnosis of meningococcal meningitis
7. Pathogenesis of Gas gangrene
8. Lab diagnosis of diphtheria
9. Primary complex
10. Lab diagnosis of cholera

**Comment on**

**(10x2=20)**

11. Traveller's diarrhea
12. Trench fever
13. Helicobacter pylori
14. Widal test
15. Methods to cultivate Mycobacterium leprae
16. Morphology of E coli
17. Reverse CAMP test
18. Swarming of proteus
19. Multidrug resistant tuberculosis
20. Bile solubility test

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