

**NEW**  
**Part-III 3-Tier**  
**2015**  
**MICROBIOLOGY**

**(Honours)**

**PAPER—VIII**

**(PRACTICAL)**

*Full Marks : 100*

*Time : 6 Hours*

*The figures in the right-hand margin indicate full marks.*

*Candidates are required to give their answers in their own words as far as practicable.*

**Answer all questions.**

1. Find out the pathogen from the supplied infected plant sample (A). Comment on the reproductive structure of the pathogen. 15  
*[Procedure—3; Spot assessment—4; Drawing & Description—6; Comment—2]*
2. Determine potability of supplied water sample (B) through MPN method. 20  
*[Principle—3; Procedure—3; Spot assessment—6; Result—6; Comment—2]*

*(Turn Over)*

11

3. Determine the Molecular weight of supplied protein (C) through SDS PAGE.

20

[Procedure—6; Spot assessment—6; Principle—4; Result—4]

4. Determine the MIC value of supplied antibiotics (D).

15

[Procedure—3; Spot assessment—5; Result—4; Comment—3]

5. Determine the frequency distribution of the data (E) supplied to you and calculate standard error from it.

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[Tabulation—2; Calculation—4; Result—4]

6. Viva-voce.

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7. Laboratory Note Book.

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