

**2012****M.Sc.****3rd Semester Examination****MICROBIOLOGY****PAPER—MCB-306****(PRACTICAL)***Full Marks : 50**Time : 10 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.*

**Group—A**

Answer all questions.

1. Enumerate the Azotobacter population of the supplied soil sample (A). 8

Or

Determine the infection efficiency of a mycorrhizae in the given root sample (B).

2. Estimate the amount of IAA present in the given microbial culture (C). 8
3. Laboratory Note Book. 2
4. Viva-voce. 2
5. Internal Assessment. 5

*(Turn Over)*

**Group—B**

Answer all questions.

6. Identify the specimens (D, E & F) giving proper reasons. 3×2
  7. Compare the stomatal frequency between virus infected leaf sample (G) with normal leaf (H). 8
  8. Submission of pathological sheets. 2
  9. Laboratory Note Book. 2
  10. Viva-voce. 2
  11. Internal Assessment. 5
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