

2009

M.Sc.

3rd Semester Examination

MICROBIOLOGY

PAPER—XVIII

(PRACTICAL)

Full Marks : 40

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. Isolate at least two VAM spore from given soil sample (A).
8

Or

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

(Procedure—3, Result—3, Comment—2)

2. Isolate and enumerate the microbial population (bacteria) from Legume nodule. Draw the anatomical structure of the nodule.
6+2

(Procedure—3, Result—2, Comment—1)

(Turn Over)

Group—B

Answer *all* questions.

3. Identify the specimens (D, E & F) with characters. 3×2
4. Determine the stomatal frequency of given leaf sample (G). 6

Or

Isolate and identify the fungal pathogen from the supplied sample.

5. Submission of pathological sheets. 4
6. Laboratory note book. 4
7. Viva-voce. 4
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