

M.Sc. 1st Semester Examination, 2010

BOTANY

PAPER—BOT-106(VI)

(Practical)

Full Marks : 50

Time : 7 hours

Answer all questions

The figures in the right-hand margin indicate marks

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

1. Prepare a slide of the supplied bacterial sample A/B using Gram stain. Make a labelled diagram of the bacteria and comment on it.

10

Or

Prepare a slide of the supplied curd sample C. Comment on the Gram nature of its organisms. Make suitable diagram. 10

(Principle-2, Work-4, Drawing-2, Comment-2)

2. Stain the endospores of the supplied specimen D/E. Give a labelled diagram of it and comment. 10

Or

Make negative staining of supplied bacterial sample F. Give a labelled diagram of it and comment. 10

(Principle-2, Work-4, Drawing-2, Comment-2)

3. Make a suitable preparation of the supplied fungal specimen G/H. Draw, label and describe its reproductive structures. Identify the organism. 3 + 2 + 3 + 2

4. Process the given root sample to show VAM. Draw and comment. 6

(Preparation-2, Draw-2, Comment-2)

5. Submission of fungal and pathological specimens
(at least 4 from each group). 4
 6. Laboratory note book(s). 5
 7. Viva-voce. 5
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