

M.Sc. 3rd Semester Examination, 2010

BOTANY

PAPER—XVII(Unit-I)

(Practical)

Full Marks : 30

Time : 3 hours

The figures in the right-hand margin indicate marks

UNIT—I

(Plant Physiology and Biochemistry)

Perform *two* experiments (Q. Nos. 1 to 7) as indicated by tick (✓) mark : 2 + 6 + 2

**[Requisition : 2, Results and Calculation : 6,
Comment : 2]**

(Turn Over)

1. Evaluate the viability percentage of the supplied seed samples A, B, C, D and E.
2. Compare the level of total chlorophyll present in the supplied (young, mature and old) leaves of a plant.
3. Compare the activities of the enzyme catalase from the supplied samples F and G.
4. Measure the concentration of the supplied amino acid samples H and I with the help of a standard curve.
5. Estimate the concentration of the supplied protein samples J and K with the help of a standard curve.
6. Colorimetrically estimate the concentration of glucose in the sample L and M using a standard curve.

7. Determine the concentration of IAA present in the supplied samples N and O using a standard curve.
8. Practical Note Book. 5
9. Viva-voce. 5