

NEW
Part II 3-Tier
2017
BIOTECHNOLOGY
(Honours)
PAPER—V
(PRACTICAL)

Full Marks : 100

Time : 10 Hours

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

Answer all questions.

1. Identify the unknown amino acid sample (A) through paper chromatography using standard (x, y, z). 15
[Principle — 3, Procedure — 3, Work — 3, Result — 3, Comment — 3]
2. Calculate molecular weight of the supplied protein sample (B) using SDS-PAGE. 20
[Principle — 4, Work — 8, Result — 5, Comment — 3]

(Turn Over)

3. Find out the Gram nature and shape of the supplied bacterial sample (C). Comment on your observation. 15
[Principle — 3, Work — 6,
Draw & label — 3, Comment — 3]
4. Determine the unknown concentration of supplied antibiotic solution (D) from standard curve. 20
[Principle — 3, Procedure — 4,
Work — 5, Result & Calculation — 5, Comment — 3]
5. Determine the sugar utilization by Amylase assay. 10
[Principle — 3, Result — 4, Comment — 3]
6. Laboratory Note Book. 10
(Duly signed by the teacher)
7. Viva-voce. 10
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