

OLD
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. Calculate molecular weight of the supplied protein sample (A) using SDS-PAGE. 20

*[Principle — 4, Work — 8,
Result — 5, Comment — 3]*

2. Identify supplied amino acid sample (B) through paper chromatography using standard (x, y, z). 15

*[Principle — 3, Procedure — 3, Work — 3,
Result — 3, Comment — 3]*

(Turn Over)

3. Comment on the nature of Endospore Present in the bacterial sample (C) following standard staining procedure. 15
[Principle — 3, Work — 6,
Observation and Comment — 6]
4. Determine the bacterial load of supplied sample (D) through spread plate method. 20
[Principle — 3, Procedure — 4, Work — 5,
Result and Calculation — 5, Comment — 3]
5. Determine the sugar utilization by Amylase assay. 10
[Principle — 3, Result — 4, Comment — 3]
6. Laboratory Note Book. (Duly signed by the teacher) 10
7. Viva-voce. 10
-