

OLD
Part II 3-Tier
2016
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
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