NEW

Part II 3-Tier

2015

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.

[Principle-4, Work-8, Result-5, Comment-3]

 Identify supplied amino acid sample (B) through thin layer chromatography using standard (p, q, r).

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

 A sample of waste-water has an ultimate BOD of 280 mg/L and a 5-day BOD of 240 mg/L. Calculate 15-day BOD of this sample.

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4.	Find out the Gram nature and shape of the supplied bacterial sample (C). [Principle—2, Work—3, Drawing—3, Comment—2]
5.	Find out the concentration of the supplied antibiotic (D) through bioassay using standard. 20 [Principle—3, Procedure—4, Work—5, Result—5, Comment—3]
6.	Determine the O.D. of a supplied E. Coli sample (E) by Spectrophotometer using sterile media as blank and calculate the number of bacterial cells per ml of culture. 10 [Principle—3, Work—3, Result—2, Comment—2]
6	Laboratory Note Book.
	Viva-voce. 10