

NEW
Part II 3-Tier
2018
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 supplied amino acid / carbohydrate through TLC. 15
[Principle — 4, Work and spot evaluation — 7,
Comment — 4]

2. Determine the MW of supplied protein by comparing with the standards through SDS - PAGE. 25
[Principle — 5, Work & spot evaluation — 10,
Graph and Calculation — 7, Comment — 3]

(Turn Over)

3. Comment on the supplied bacterial culture by Gram staining / endospore staining / capsule staining. 10
[Principle of staining — 4, Work and spot evaluation — 6]
 4. Calculate the BOD level of supplied water sample and comment in this regard. 15
[Procedure — 5, Work — 5, Comment — 5]
 5. Enumerate the quantity of bacteria / fungi of the supplied water / soil sample by spread plate technique. 15
[work and spot evaluation — 5, Result — 5, Comment on the occurrence of microbes in that habitat — 5]
 6. Laboratory Note Book. 10
 7. Viva-voce. 10
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