

OLD
Part-III 3-Tier
2017
BIOTECHNOLOGY
(Honours)
PAPER—VIII
(PRACTICAL)

Full Marks : 100

Time : 6 Hours

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

Candidates are required to give their answers in their own words as far as practicable.

Answer all questions.

1. Determine the DNA sequence of human insulin and its corresponding amino acid sequence. Compute molecular weight of insulin. 20

[Work : 5+5, Result : 3+3+2, Comment : 2]

2. Prepare a suitable culture media for Plant tissue culture. Demonstrate the tissue culture technique on solid media using plant apical meristem. 20

[Work : 12, Procedure : 8]

3. Estimate the level of cholesterol / urea of the supplied blood sample. Write the principles and comment on your results.

20

[Principle : 05, Procedure : 06,
Result : 06, Comment : 3]

4. Determine your own blood group following standard protocol. Write the Principle and comment on your results.

10

[Procedure : 05, Principle : 03, Comment : 02]

5. Submission of Educational Excursion Report based on Industry visits.

5

6. Submission of Educational Excursion Report based on visits to Higher Institution.

5

7. Laboratory Note Book.

10

8. Viva-voce.

10