

**NEW**

**Part-III 3-Tier**

**2016**

**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 ]*

*(Turn Over)*

3. Estimate the level of cholesterol of the supplied blood sample. Write the principles and comments on your result.

20

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

4. Determine your own blood group of following standard method. Write the Principle and comment on your result.

10

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

5. Submission of Educational Excursion Report. 10

6. Laboratory Note Book. 10

7. Viva-voce. 10
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