

**NEW**  
**Part-III 3-Tier**  
**2018**  
**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 and demonstrate the technique by placing a Plant's apical meristem on it. 20

*[ Work : 12, Procedure : 8 ]*

*(Turn Over)*

3. Estimate the level of Glucose of the supplied blood sample. Write the principle and comment on your result.

25

*[Principle : 7, Procedure : 6,  
Result : 8, Comment : 4]*

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

15

*[Procedure : 7, Principle : 5, Comment : 3]*

5. Laboratory Note Book. 10

6. Viva-voce. 10

