

**NEW****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 technique on solid media using plant's apical meristem.** 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.

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, Principle : 03, Comment : 02]*

5. Submission of Educational Excursion Report. 10

6. Laboratory Note Book. 10

7. Viva-voce. 10