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<b>CODE : 35T BTEC (Pr / I)</b>
(EN)

**2026**

**Suggestive Guidelines for**

**BIOTECHNOLOGY**  
**( Practical )**

**Full Marks : 30**

**Pass Marks : 12**

**Time : 3 hours**

*The figures in the margin indicate full marks  
for the questions.*

**Note :** The guidelines for 2026 has to be prepared on this basis without repeating from the suggestive guidelines as far as practicable.

## **INSTRUCTIONS TO EXAMINERS**

1. Please keep blood samples ready for determining blood group. Alongwith it, also keep the required reagents ready.
  
2. Please keep the sample ready for performing DNA estimation. Also keep the required reagents ready.
  
3. For Bioinformatics practical, computers must be kept ready with internet connections and good internet speed.

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## **Questions**

1. Determine the blood group of the given sample and write down the procedure. 8

***OR***

Estimate the DNA in a given sample using diphenylamine method and calculate the concentration of the unknown sample from the standard graph. 8

2. Retrieve the genome information of *Bacillus* species from GenBank. 8

***OR***

Download the protein sequence for Insulin of *Homosapiens* in FASTA format and perform BLAST. Comment on the results obtained. 8

3. Submission and demonstration of your project work. 4+2=6
4. Practical Notebook. 4
5. Viva voce. 4

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