

Total Pages - 2

UG/5th Sem/BIOT(H)/Pr/19

2019

B.Sc. (Honours)

5th Semester Examination

**BIOTECHNOLOGY**

Paper - DSE 1-P

(Practical)

Full Marks : 20

Time : 3 Hours

*The figures in the margin indicate full marks.*

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

**Medical Microbiology**

Answer *all* questions.

1. Write down the principle of Gram's Staining. Identify the gram characteristic of the bacterial Sample A and B under microscope. Interpret your result. 15

[Principle : 2 ; Procedure : 3 ; Identification : 4+4 ; Interpretation : 2].

2. Laboratory Note Book. 2
3. Viva voce. 3

\_\_\_\_\_ [ Turn Over ]

( 2 )

**Bioinformatics**

Full Marks : 20

Time : 2 Hours

Answer *all* questions.

1. Do the multiple sequence alignment of supplied protein sequences using clustal W.

[Principle : 2 ; Procedure : 3 ; Result and Comment : 3] 8

2. Perform BLAST of supplied nucleotide sequence and comment on it.

[Principle : 1 ; Procedure : 3 ; Result and Comment : 3] 7

3. Laboratory Note Book. 2

4. Viva-voce. 3
-