

U.G. 5th Semester Examination - 2021
Molecular Biology & Biotechnology
[HONOURS]

Discipline Specific Elective (DSE)
Course Code : MBBT(H)/506(P)DSE-2/PR
[PRACTICAL]

Full Marks : 20

Time : 2 Hours

The figures in the right-hand margin indicate marks.

1. Attempt any **one**:

- a) Write the working principle, requirements and detailed procedure to draw the growth curve of *E.coli* using spectrophotometer. Write the observation, assuming data and calculate generation time from the assumed data.

2+2+3+2+1=10

- b) Write the working principle, requirements and detailed procedure to study the growth curve of *Aspergillus niger* by radial growth measurements. Write the observation, assuming data and draw inference from the assumed data.

2+2+3+2+1=10

- c) Write the working principle, requirements and detailed procedure to study the effect of pH on the growth of *E.coli* using turbidimetric method. Write the observation, assuming data and draw inference from the assumed data.

2+2+3+2+1=10

- d) Write the working principle, requirements and detailed procedure to determine the thermal death time of *E.coli*. Write the observation assuming data and draw inference from the assumed data.

2+2+3+2+1=10

- e) Write the working principle, requirements and detailed procedure to determine the decimal reduction time of *E.coli*. Write the observation, assuming data and draw inference from the assumed data.

2+2+3+2+1=10

2. Laboratory Note book 5
3. Viva-voce 5
