

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

Discipline Specific Elective (DSE)
Course Code: MBBT(H)503(P)DSE-1/PR
[PRACTICAL]
(Animal Biotechnology)

Full Marks : 20

Time : 2 Hours

The figures in the right-hand margin indicate marks.

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

Answer all the questions.

1. Answer any **one** of the following: 10×1=10
 - a) How can you isolate genomic DNA from the given animal tissue? If you run the genomic DNA on an agarose gel, what will be your principle, procedure, result and observation of this experiment. $2\frac{1}{2} + 2\frac{1}{2} + 2\frac{1}{2} + 2\frac{1}{2}$
 - b) How can you apply an absorbance based quantification method to quantify a given DNA sample. Write the principle procedure, result and observation of this method. $2\frac{1}{2} + 2\frac{1}{2} + 2\frac{1}{2} + 2\frac{1}{2}$

- c) How can you perform a density gradient centrifugation for isolation of lymphocytes from peripheral blood. Write the principle, procedure, result and observation of this experiment. $2\frac{1}{2} + 2\frac{1}{2} + 2\frac{1}{2} + 2\frac{1}{2}$

2. Viva- voce 5
3. Lab notebook 5

[Turn over]