

U.G. 3rd Semester Examination - 2021
Molecular Biology & Biotechnology
[HONOURS]
Course Code : MBBT301(P)/CCR-5
(Genetics)
[PRACTICAL]

Full Marks : 20

Time : 2 Hours

The figures in the right-hand margin indicate marks.

1. You have been provided with 22 plants, having red colored seed coats and 18 plants having brown colored seed coats. Comment on the nature of inheritance of the seed coat color trait with proper representation. 5

OR

You have been provided with human squamous epithelial cells. Describe the procedure of preparation of slides for demonstration of Barr Body from the sample. What are the applications of karyotype analysis? 5

2. Write down the procedure of preparation of slides for demonstration of translocation from Rhoeo sample. Why root tip is called virus free region? 3+2=5

OR

Write down the features of Diplotene stage of meiosis of Grasshopper testis. Comment on the mode of separation of chromosomes in Anaphase I of Grasshopper. 3+2=5

3. Lab Note Book/ Online submission of practical based home assignments. 5
4. Viva-voce / Continuous internal evaluation. 5

[Turn over]