Raja N. L. Khan Women's College (Autonomous) End Semester Examinations-2022

BOTANY [PG-CBCS]

[M.Sc] (Practical)

PAPER-305A

Cell Biology, Genetics and Biotechnology

Full Marks: 25

Time: 02Hrs

Answer all questions

1. Perform the experiment as instructed by examiner

i) Test Cross progeny-

(3-3-2=8)

CsW cSw CSw	2777
CSw	
	116
esW =	123
Csw	643
cSW	626
CSW.	-1
CSW	3
	7000
	Csw cSW CSW

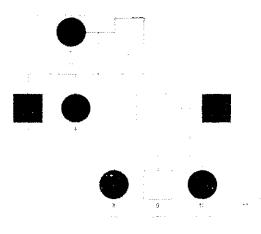
For this above dataset, find out the following-

- a. Arrangement of the genes (C, S and W)
- b. Distance between each of the genes
- c. Coefficient of coincidence.

OR

ii) Workout the supplied sample (onion bud) and find two divisional stages. Draw, label and identify these two stages, (work out-2, stage finding-2, drawing and labeling-2, Identify-2)

Q.2- Perform the experiment as instructed by the examiner



i) In the above pedigree, the affected individuals are shown shaded. What is the inheritance pattern for this trait and why? (6)

OR

ii) A set of sample seeds have been provided to you. Explain the result with X^2 - analysis.

Q3- Identify A, B and C with proper reasons

2x3=6

Q4- laboratory note book
2

Q5- Viva voce
3