

Telangana University
UG – CBCS – I semester – 2019-20
B.Sc. Biotechnology
Practical Question Bank – DSC IA
Cell Biology & Genetics

1. Microscopic observation of cells: bacteria, fungi, plant and animal [MINOR]
2. Preparation of different stages of Mitosis (onion root tips) [MAJOR]
3. Preparation of different stages of Meiosis (Grasshopper testis) [MAJOR]
4. Preparation of Polytene chromosomes from *Drosophila* salivary gland [MINOR]
5. Monohybrid [MINOR] and dihybrid ratio in *Drosophila* [MAJOR]
6. Monohybrid and dihybrid ratio in Maize [MINOR]
7. Problems on Co-dominance [MINOR], Epistasis [MAJOR], two point and three point test cross [MAJOR], gene mapping [MAJOR]
8. Statistical applications of Hardy – Weinberg Equilibrium [MINOR]

SPOTTERS:

1. Prokaryotic cell (Bacteria)
2. Mitochondria
3. Chloroplast
4. Polytene chromosome
5. Test Cross
6. Blood grouping
7. Hemophilia pedigree
8. Crossing over
9. Synaptonemal complex
10. Nucleosome model

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Practical Model Question Paper (DSC - IA)
Cell Biology & Genetics

Max Marks: 50

Time: 2 Hrs

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|-------------|------------------|-----------------------|
| I) | Major | (20M) |
| II) | Minor | (10M) |
| III) | Spotters | (5X2 1/2= 10M) |
| IV) | Record | (5M) |
| V) | Viva Voce | (5M) |