D.K.M.COLLEGE FOR WOMEN (AUTSONOMOUS), VELLORE-1.

NON – MAJOR

PLANT CELL AND TISSUE CULTURE

SECTION-A 2 MARKS

1. Plant tissue culture
2. Plant cell structure
3. Any two functions of plant cell
4. Chloroplast
5. LAF
6. Hot Air Oven
7. Incubator
8. Autoclave
9. Centrifuge
10. Sterilization
11. Explant
12. Pollen
13. Embryo
14. Callus
15. Organ culture
16. Suspension culture
17. Media
18. composition of MS medium
19. Transgenic plants
20. Biotic stress with example
21. Abiotic stress with example
22. Cry gene
23. PHA and PHB
24. Edible vaccine
25. Vaccine
26. Any two industrial enzymes
27. Cell-totipotency
28. Basic technique in plant tissue culture
29. Name the substance added to the culture medium to induce callus induction.
30. Name the bacteria known as natural genetic engineer of plants
31. The uses of callus culture

32. Uses of cell suspension cultures?
33. Plant bioreactor
34. Golden Rice
35. Molecular farming
36. Biodegradable plastics
37. Secondary metabolites
38. Micropropagation
39. Endosperm culture
40. Root culture
41. Protoplast
42. UV sterilization
43. Sterilization of explant
44. Types of culture
45. Alcohol sterilization
46. Chemical sterilization
47. Green house
48. Gelling agent
49. Growth regulators in medium
50. MS medium composition

SECTION-B 10 MARKS

1. History and scope of plant tissue culture
2. Plant cell structure and its function
3. Overview of plant tissue culture
4. Lab equipments used in plant tissue culure
5. Sterilization
6. Types of cultures and its uses
7. Media and its preparation
8. Uses of transgenic plants
9. Herbicide resisitant
10. Insect resistant
11. Biodgradable plastics
12. Industrial enzymes production
13. Maintanance of asceptic conditions in lab
14. Sterilization of explant
15. Embryo culture
16. Endosperm culture
17. Callus culture
18. Growth measurements in culture

19. Types of suspension culture
20. Agrobacterium tumefaciens.

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