**MODEL QUESTION PAPER**

**KAHM UNITY WOMEN’S COLLEGE, MANJERI**

**PG DEPARTMENT OF BOTANY**

**Certificate Course Examination**

**Plant Tissue Culture Technology**

Time: 1 Hour Max Marks: 30

**Section A**

**Answer at least ten questions. Each question carries 1 mark.**

**All questions can be attended. Overall ceiling 10.**

1. Differentiate between differentiation and redifferentiation

2. Explain totipotency

3. Write a short account on synthetic seeds

4. What is somatic embryogenesis

5. Write on different tissue culture media

6. Distinguish MS medium and White’s medium

7. Write the advantages of micropropagation

8. What are the steps of plant tissue culture

9. Mention the significance of meristem culture

10. Write a short note on in vitro shoot multiplication

11. Name of auxins cytokinins

**(10X1= 10 Marks)**

**Section B**

**Answer at least five questions. Each questions carries 2 marks.**

**All questions can be attended. Overall ceiling 10**

12. Explain in vitro secondary metabolite production

13. Explain about the orchid in vitro production

14. Write an account on anther culture

15. Write notes on somaclonal variation

16. Explain the steps of disease-free plant production

17. Explain the methods of in vitro germplasm conservation

**(5X2= 10 Marks)**

**Section C**

**Answer any two questions. Each questions carries 5 marks**

18. Write an essay on different types of tissue culture media

19. Explain the applications of micropropagation

20. Give an account of various steps of plant tissue culture

**(2X5= 10 Marks)**