

Q.P. Code – 42645

Sixth Semester B.Sc. Degree Examination, September 2020

(CBCS Scheme)

Biotechnology

Paper VII – PLANT AND ANIMAL CELL TECHNOLOGY

Time : 3 Hours]

[Max. Marks : 90

Instructions to Candidates : Draw labelled diagrams wherever necessary.

PART – A

I. Answer any **TEN** of the following :

(10 × 2 = 20)

1. Callus
2. IAA
3. Androgenesis
4. Pectinase
5. Fusogen
6. Tissue extract
7. EGF
8. Liposome
9. Origin of replication
10. Patent infringement
11. Trade secret
12. WIPO

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PART – B

II. Answer any **SIX** of the following :

(6 × 5 = 30)

13. Aseptic techniques in plant tissue culture
14. Ovary culture
15. Protoplast isolation
16. Plant secondary metabolites
17. Transgenic plant
18. HAT selection
19. Continuous cell lines
20. Vaccines from animal cells

PART – C

III. Answer any **FOUR** of the following :

(4 × 10 = 40)

21. What is in Vitro propagation? Explain the stages involved.
 22. Explain somaclonal variation in detail.
 23. Write a note on the role of tissue culture in agriculture and forestry.
 24. Define Animal cell culture. Give a detailed account on animal cell culture medium.
 25. What are cloned proteins? Explain their production and significance with an example.
 26. Define IPR. Write a note on procedure involved in patenting biotechnological inventions.
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