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SVIS 318 A -16
B.Sc. VIth Semester Degree Examination
Biotechnology(Optional)
(Plant & Animal Cell Culture)
Paper - 6.6

Time : 3 Hours

Maximum Marks : 80

Instructions to Candidates:

- 1. Answer all the questions**
- 2. Draw diagram wherever necessary**

Section -A

I. Answer the following in one word or sentence each

(15×1=15)

1. Explant
2. Variants
3. Cell line
4. Explant
5. Serum
6. Adherent growth
7. Embryoid
8. Regenerative medicines
9. Vaccine
10. Gene therapy
11. Clonal Propagation
12. Primary culture
13. Callus
14. Cybrid
15. BSS

Section -B

II. Answer any five of the following.

(5×5=25)

16. In vitro culture methods
17. Callus culture method
18. Clonal propagation from elite species
19. Applications of animal cell culture
20. Method of protoplast isolation
21. List the achievements of HGP
22. Method of somatic hybridization

Section -C

Answer any four of the following

(4×10=40)

23. What is micropropagation? Explain and add its applications
 24. Explain single cell suspension culture and add its application in selection of variants
 25. Explain the uses of animal cell culture in production of vaccine
 26. Explain the method of gene therapy and add its applications.
 27. Explain the method of transgenesis in animals and add its applications
 28. Describe embryo culture and add its applications.
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