

16P330

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Name.....

Reg. No.....

THIRD SEMESTER M.Sc. DEGREE EXAMINATION, OCTOBER 2017

(Regular/Supplementary/Improvement)

(CUCSS - PG)

CC15P BO3 C11 - BIOTECHNOLOGY AND BIOINFORMATICS

(Botany)

(2015 Admission Onwards)

Time: Three Hours

Maximum: 36 Weightage

I. Answer *all* questions very briefly:

1. Explain FISH
2. What is cDNA library?
3. Full form of CATH and SCOPE?
4. What are biodegradable plastics?
5. What are vectors?
6. DNA chips
7. Comment on suspension culture?
8. Briefly explain PLOS?
9. Comment on Gene piracy?
10. What is open archive?
11. Comment on Micro salts?
12. What is cryopreservation? What is its significance?
13. What is RAPD and RFLP?
14. Briefly explain chromosome walking and jumping?

(14 x 1 = 14 Weightage)

II. Answer *any seven* questions not more than **100** words.

15. Discuss large scale cultivation of cell using bioreactors for secondary metabolites?
16. Write an account on direct and indirect organogenesis and factors affecting it.
17. Briefly explain DNA sequencing methods.
18. Differentiate Biomed central and Pub med Central.
19. Describe southern and western blotting technique.
20. Explain Chou- Fasman method of secondary structure prediction.
21. Discuss on media for in vitro culture and their compositions.
22. What is e-access? Explain types of online access methods.
23. Write an account on antisense RNA technology.
24. What is free software movement? Explain the contributions of FSF (free software foundation)

(7 x 2 = 14 Weightage)

III. Answer *any two* questions in **300** words each

25. General account of laboratory facilities of Tissue culture
26. Discuss objectives and achievements of genetic engineering.
27. Give an account of Protein sequence database.
28. Enumerate the essential steps of recombinant DNA technology. Discuss the various types of vectors used as cloning vehicles

(2 x 4 = 8 Weightage)
