

D 6758

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Name

Reg. No.

THIRD SEMESTER M.Sc. DEGREE EXAMINATION, DECEMBER 2016

(CUCSS)

General Biotechnology

GB 3C 3 – PLANT BIOTECHNOLOGY

Time : Three Hours

Maximum : 36 Weightage

Section A

*Answer **all** questions.*

Each question carries a weightage of 1.

- | | |
|----------------------|-------------------------|
| 1. Vetrification. | 2. Hormone habituation. |
| 3. Synseed. | 4. Cybrid. |
| 5. Embryo rescue. | 6. Co-integrate vector. |
| 7. Meristem culture. | 8. RIP. |
| 9. Ti | 10. Zygotic embryo. |

(10 x 1 = 10 weightage)

Section B

*Answer any **seven** questions.*

Each question carries a weightage of 2.

11. Surface sterilisation.
12. Inorganic nutrients.
13. Dedifferentiation and redifferentiation.
14. Slow growth cultures.
15. Cryopreservation.
16. Somatic embryogenesis.
17. Explain Electroporation and microinjection.
18. Endosperm culture.
19. Selection of somaclonal variants.
20. Haploid culture and production of homodiploids.

(7 x 2 = 14 weightage)

Turn over

Section C

*Answer any **two** questions.*

Each question carries a weightage of 6.

21. Give detailed account on **transgenics** for herbicide tolerance in crop plants.
22. Explain different in vitro techniques by which secondary metabolites are synthesized.
23. Describe different methods of **micropropagation**.

(2 x 6 = 12 weightage)