Reg.No. \_\_\_\_\_\_\_\_\_\_\_\_

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**End Semester Examination – Nov/Dec – 2018**

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|  |  |  |  |
| **Code :** | **14BT2025** | **Duration :** | **3hrs** |
| **Sub. Name :** | **PLANT TISSUE CULTURE** | **Max. marks :** | **100** |

**ANSWER ALL QUESTIONS (5 x 20 = 100 Marks)**

|  |  |  |  |  |
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| **Q. No.** |  | **Questions** | **Course**  **Outcome** | **Marks** |
| 1. |  | Relate various stages involved in micropropagation. | CO1 | 20 |
| (OR) | | | | |
| 2. |  | Interpret the experimental significance of micropropagation. | CO1 | 20 |
|  |  |  |  |  |
| 3. |  | Compare the plant derived secondary metabolites in therapeutic applications giving an example. | CO3 | 20 |
| (OR) | | | | |  |  |
| 4. |  | Evaluate the secondary metabolite production from *in vitro* cell cultures. | CO3 | 20 |
|  |  |  |  |  |
| 5. |  | Outline the scope and importance on tissue culture in crop improvement. | CO3 | 20 |
| (OR) | | | | |
| 6. |  | Compile the requirement of nutritional supplements in *vitro* culture. | CO2 | 20 |
|  |  |  |  |  |
| 7. |  | Distinguish totipotency and explain its understanding with regard to micropropagation. | CO2 | 20 |
| (OR) | | | | |
| 8. |  | Predict the significance of phytohormones in cellular differentiation of in vitro cells during morphogenesis. | CO2 | 20 |
|  |  |  |  |  |
|  | | **Compulsory**: |  |  |
| 9. |  | Asses various techniques involved in cryopreservation of germplasm. | CO3 | 20 |
|  |  |  |  |  |