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JAYPEE UNIVERSITY OF INFORMATION TECHNOLOGY, WAKNAGHAT

TEST -1 EXAMINATION, September-2016

B.Tech VII<sup>th</sup> /BTDD (BT)

COURSE NAME: Industrial Plant Tissue Culture

MAX. MARKS: 15

COURSE CODE: 10B1WBT735

COURSE CREDITS: 03

MAX. TIME: 1.0 HR

Note: *All questions are compulsory; Carrying of mobile phone during examination will be treated as case of unfair means.*

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Q1. How somaclonal variations are used in developing drought resistant plants? How these variations can take place in the cell? (3)

Q2. Give reasons for the followings:

- Homozygous plants can be feasible to grow or not
- Secondary metabolites are used by the plants or they are just the products of the plants
- Meristem tip culture is the most efficient technique of virus eradication or not (2x3=6)

Q3 For the industrial production of Gensionside which technology you wanted to apply and why? Give justification .(3)

Q4. How you can use the biological method of genetic modification for developing virus-resistant tomato? Give methodology for the same. (3)