

JAYPEE UNIVERSITY OF INFORMATION TECHNOLOGY WAKNAGHAT

TEST-1 EXAMINATION-2015

BTECH (BT) –VII SEMESTER

COURSE TITLE: INDUSTRIAL PLANT TISSUE CULTURE

MAX. TIME: 1HR

COURSE CODE: 10B1WBT735

MAX. MARKS :15

All questions are compulsory.

Q1. How you can commercialize the techniques of plant tissue culture? Cite one example of successfully working unit in India. (3)

Q2. How somatic embryogenesis can be induced in plant species? What is the advantage of this very technique? (2.5)

Q3 Write short notes on followings:

a) Double homozygous plants

b) Essentialities of Growth room

c) Continuous cell suspension cultures

d) Somatic hybridization

(4)

Q4. Meristem tip culturing is very useful in crop improvement programs. How you would like to justify this statement. (2.5)

Q5. Ram has to produced 500 plants of *Gentiana* which should be clones. Which technique you would like to use and why that is important? (3)