

JAYPEE UNIVERSITY OF INFORMATION TECHNOLOGY WAKNAGHAT

TEST-1

SEMESTER : VII (BT/BTDD)

COURSE TITLE: Industrial Plant Tissue Culture

MAX.MARKS:15

COURSE CODE: 10B1WBT725

TIME: 1 HR

Q1. How cell suspension cultures are established for the production of Picrosides for combating commercial demands? (2.0)

Q2. Give reasons for the followings:

- a) Sucrose used as the only carbon source for plants growth
- b) Growth hormones for organogenesis
- c) Rationale of research paper analysis (3x2 =6)

Q3. How crop improvement is carried out for inducing disease resistance in tomatoes? Mention by citing example. (2.0).

Q4. Differentiate between conventional and *in vitro* techniques for hybrid crop productions? (2.5)

Q5. What are those significant applications of plant tissue culture techniques which have demarcated impacts on human and scientific lives? (2.5)