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JAYPEE UNIVERSITY OF INFORMATION TECHNOLOGY WAKNAGHAT

TEST-1(2019)

B.Tech Biotechnology

COURSE TITLE: Industrial Plant Tissue Culture

MAX.MARKS:15

COURSE CODE: 10B1WBT725

TIME: 1 HR

Q1. How cell suspension cultures are established and what are their classifications? How it can be used for the production of secondary metabolites? (3.0) CO2

Q2. Give reasons for the followings:

- Sucrose and organic carbon used as the carbon source for plants growth
- Growth hormones required for organogenesis
- Somatic embryos as artificial seeds (3x2 =6) CO1

Q3. How crop improvement is carried out for inducing disease resistance in plants? Mention by citing example. (3.0). CO2

Q4. Differentiate between conventional and invitro techniques for hybrid crop productions? How it benefits in the present scenario of industrial plant tissue culture?(3) CO1