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## JAYPEE UNIVERSITY OF INFORMATION TECHNOLOGY WAKNAGHAT

## T1 Examination

## B.Tech Biotechnology (7th Semester)/Ph.D

COURSE: Industrial Plant Tissue Culture /Plant Tissue Culture Technologies MARKS:15

COURSE CODE: 10B1WBT725/18M1WBT132

TIME:1HR

- Q1. How upscaling of hairy roots of *Picrorhiza* is carried out? Explain the methodology for the same. (3)
- Q2. How you can carry out long term conservation of somatic embryos? Explain the procedure for their revival after storage for 12 years. (3)
- Q3. How you can develop high content genotype of *Swertia*? Explain the technique and technology used for the production of variants of the same genus.(3)
- Q4. Explain the followings:
  - a. How elimination of virus can be carried out in plants?
  - b. How somaclonal variation contributes in crop improvement?
  - c. How you can produce triploids through in vitro techniques? (6)