Dr. Hemant

## JAYPEE UNIVERSITY OF INFORMATION TECHNOLOGY, WAKNAGHAT B.Tech (BT/DD).- Semester 4<sup>th</sup>, Test 1 (Feb. 2016)

Course Code: 10B11BT412	Max. Marks: 15
Course Name: Cell Culture Technology	
Course Credit: 04	Max. Time: 1:00 Hr
Attempt all questions.	
Q1.How would you like to proceed for the estab	lishment of large scale cell suspension culture of
Catharanthus sp. ?What are the pros and cons of the	is technique? (3)
Q2.What do you understand by hardening of tissu	e culture plantlets? What is the significance of this
at commercial scale? How would you like to carry	it out successfully?(3)
Q3. Distinguish the followings:	
a) Zygotic and somatic embryo	
b) Conventional propagation and micropropagati	on .
c) Direct and indirect embryogenesis	(3)
Q4. Write briefly:	
a) cell viability test	
b) Two important discoveries lying in the years (	1990s and 2000s) in plant biotechnology only
c) Write the botanical names of two plant species	according to latest ICN classification schemes
d) Role of gibberellins in plant growth and develo	pment
e) Role of ground tissue in plant physiology and m	norphology (6)
ine.	