

Sixth Semester B.E. Degree Examination, June/July 2019 Plant Biotechnology

Time: 3 hrs. Max. Marks:100

Note: Answer FIVE full questions, selecting at least TWO questions from each part.

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at least TWO questions from each part.			
$\underline{PART - A}$			
1	a.	Discuss in detail about composition and preparation of Tissue culture media.	(10 Marks)
	b.	Write a note on: (i) Protoplast culture (ii) Cryopreservation.	(10 Marks)
2	a.	Discuss in detail on Agrobacterium mediated transformation and its applications.	(10 Marks)
	b.	Write a note on: (i) Electroporation (ii) Transgenic plants.	(10 Marks)
3	a.	Discuss in detail about BT-genes and its applications.	(10 Marks)
	b.	Elaborate on Transgenic Technology on developing Abiotic stress resistant plants.	(10 Marks)
4	a.	Discuss in detail about improving varieties using ACC synthase, Polygalacto Uran	ase.
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	b.	Give a detailed account on Biosafety regulations and gene patents.	(10 Marks)
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		PART – B	
5	a.	Write a detailed account on production of industrial enzymes from plant sources.	(10 Marks)
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	b.	Discuss about Metabolic engineering of plants using Molecular farming.	(10 Marks)
6	a.	Define Biofertilizers and explain the process of Nitrogen fixatron.	(10 Marks)
	b.	Write a note on: (i) nif-genes (ii) nod-genes.	(10 Marks)
7	a.	What is signal transduction and explain the role of plant hormones?	(10 Marks)
	b.	Discuss the molecular mechanisms of, (i) Gibberlins (ii) Abscisic acid.	(10 Marks)
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8	a	Discuss the importance of Mycorrhizae in Agriculture and Forestry.	(10 Marks)
U		Give an account on Algue – as a source of feed, food, SCP and biofertilizer.	(10 Marks)
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