2014 (December)

Time: 2 hours

Full Marks: 40

The questions are of equal value.

Answer any four questions.

(PLANT BIOTECHNOLOGY)

- Write a detailed note on artificial seed technology.
- Write short notes on the following :
 - (a) Symmetric and asymmetric hybrids
 - (b) Production of haploid plants
- Explain plant transformation technology, under following heads:
 - (a) Tumour formation

	(b)	Ti Plasmids	
	(c)	Ri Plasmids	
	(d)	DNA transfer mechanism	
Write short notes on the follow		te short notes on the following:	
	(a)	Bt genes	
	(b)	Antifungal Proteins	
	Exp	Explain chloroplast transformation	

4.

- Explain chloroplast transformation with example of tobacco.
- Write short notes on the following :
 - (a) Plant secondary metabolites
 - (b) Green house technology
- Give a detailed account of methods of direct DNA transfer.
- Write short notes on the following :
 - (a) Gene Silencing
 - (b) DNA banking for germplasm conservation

