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(6th Semester)

Win a notes on the following :

procedure of contone sorverion.

BOTANY S. SECOND IN

TWELFTH PAPER

(Plant Biotechnology and Experimental Embryology)

Full Marks: 55

Time: 21/2 hours

(PART : B—DESCRIPTIVE)

(Marks: 35)

The figures in the margin indicate full marks for the questions

1. What is PCR? Describe the various steps of PCR.

7

Or

Write notes on the following:

31/2+31/2=7

Wrote notes on

only Goden Hore

- (a) Recombinant DNA
- (b) Restriction enzymes

3 1+316=7

2. Briefly describe the method of Agrobacteriummediated gene transformation of plant cell.

7

7

7

Or

Write notes on the following:

31/2+31/2=7

- (a) Reporter gene in plants
- (b) Gene gun
- 3. Define cryopreservation. Describe the procedure of cryopreservation.

Or

Write notes on the following:

31/2+31/2=7

- (a) Synthetic seeds
- (b) Ex-plants
- 4. Describe the various uses of biotechnological tools in the field of agriculture.

Or

Write notes on the following:

31/2+31/2=7

- (a) Plantibodies
- (b) Golden rice

5. Write notes on the following:

31/2+31/2=7

- (a) Cybrids
- (b) Embryo culture

Or

What is micropropagation? Describe the techniques of micropropagation with illustration.

7

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2015

(6th Semester)

BOTANY

TWELFTH PAPER

(Plant Biotechnology and Experimental Embryology)

(PART: A—OBJECTIVE)

(Marks: 20)

The figures in the margin indicate full marks for the questions

Answer all questions

SECTION—A

(Marks: 5)

 Put a Tick (/) mark against the correct answer in the brackets provided:

(a) In plant tissue culture, filter sterilization is used to sterilize

(i)	explants	(-2.11)	v lej	
(ii)	instruments	()	
(iii)	glasswares	()	λ.
(in)	growth regula	tors	1	

(b) A circular DNA molecule capable of independent existence and replication is known as
(i) transgene ()
(ii) antisense gene ()
(iii) promoter ()
(iv) vector ()
da nagra di maji manuna dalah menjerah di daram di serena di serena di serena di serena di serena di serena di
c) The phenomenon in which a somatic plant cell have the capacity to regenerate into whole plant is known as
(i) somatic embryogenesis ()
(ii) somaclonal variation ()
(iii) totipotency ()
(iv) None of the above ()

(d) Bt	cotton is	cing	netic		odified	variety	of
5 E	(i)	protein	()	. 1- 1- 3-	la mo es	77 1 7	W
	(ii)	antibodi	es	. ()		,	(7)
	(iii)	insectici	des	()			
	(iv)	None of	the abo	ve	()		
(e)		ell or plan cytoplasn					(4) Table	
	(i)	cybrid	()				
	(ii)	hybrid	()				
	(iii)	somatic	cell	· ())			
	(iv)	zygotic co	ell	()			

SECTION—B

(Marks: 15)

2. Write notes on the following:

3×5=15

(a) Methylase

(b) Protoplast fusion

(c) Organ culture

(d) Cloning vector

(•)

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