Seat No:	Enrolment No:

## **PARUL UNIVERSITY**

## COLLEGE OF AGRICULTURE

Semester: IV	riculture Summer 2022 - 25 Exam	Date: 16/03/2023	
Subject Code: 20102252		Time: 10:30 am to 12:30 pm	
<b>Subject Name: Principles of seed technolog</b>	gy	Total Marks: 50	
Instructions			
1. All questions are compulsory.			
2. Figures to the right indicate full marks.			
3. Make suitable assumptions wherever neces	ssary.		
4. Start new question on new page.			
Q.1 Do as Directed.			
A. Fill in the blanks. (Each of 0.5 mark		(05)	
1. The tag colour of foundation seed			
2. The genetic purity percentage of b			
3. The mimicry weed seed in wheat	seed production field		
4. ISTA full form	-		
5. The zygotic level of embryo is			
6. NSC established in the year	<del> </del>		
7. Seed act enacted in the year	<del></del>		
8. Seed control order came into exist			
9. Isolation distance for foundation s			
10. The tag colour of certified seed is	S_		
D. Malkala abaia dan amada an (Fa	-L - £ 0 5 L)	(10)	
B. Multiple choice type questions. (Each		(10)	
<b>1.</b> The seeds needs field inspection and a) Nucleus seeds	c) Certified seeds	on to farmers is	
b) Breeder seeds	d) Foundation seeds		
2. Physical purity percentage for most	,		
a) 98%	c)94%		
b) 99%	d) 90%		
3. The tag colour of breeder seed is			
a) Blue colour	c) White colour		
b) Golden yellow colour	d) Green colour		
4. National Seed Corporation establish	, , , , , , , , , , , , , , , , , , ,		
a) 1876	c) 1987		
b) 1963	d) 1973		
5. The zygotic level of microspore is_	a) 1575		
a) n	c) 3n		
b) 2n	d) 4n		
6. The seed act enforced in	<del></del>		
a)1969	c)1966		
b)1987	d)1988		
7. The genetic purity of foundation see	,		
a)99%	c)100%		
b)00.50/	4)00%		

c)Both

d)None

c) 1000m

d) 400m

c) Truthfully labelled seeds

d) Breeder seeds

8. For the production of microspores and megaspores\_

9. The class of seeds mainly produced by private seeds organizations are called

10. Isolation distance for certified seed production of bajra hybrid seed is\_

a)Meiosis

b)Mitosis

a) 100m b) 200m

a) Certified seeds

b) Nucleus seeds

\_\_ type of cell division takes place.

	11.Mai	in objective of isolation distance is		
		Senetic purity	c)To produce true to type seeds	
		Avoid contamination	d)All of the above	
	12 Isol	lation distance for certified seeds production	of paddy	
	a)10		c)3m	
	b) 5		d)4m	
	13 The	e number of nucleus present in the embryisac		
	a)8		c) 9	
	b) 7	7	d)6	
	14. The	e type of cell division takesplace for the pro-	duction of gametes in the plants is	
	a) N	Meiosis	c) Both	
	b) N	Mitosis	d) None	
	15. Plur	mule of embryo give rise to	•	
		Shoot system	c) Seeds	
		Root system	d) Fruits	
		lical of embryo give rise to	,	
		Shoot system	c) Seeds	
		Root system	d) Fruits	
	,	other dehiscence and stigma receptivity takes	,	
		Dichogamy	c)Protandry	
	,	Dicliny	d)Protogyny	
		colour of truthfully labelled seeds is	a)11010gj taj	
	_	opel green	c)Orange	
	b)B		d)None	
		adquarters of ISTA at	d) voice	
		furich	c)Rome	
	,	New delhi	d)Italy	
		den heritable change in an organism is called		
		leiotrophy	c)Mutation	
		Expressivity	d)Variation	
0.2	,	Directed.	u) variation	
_		the following. (Any five)		(05)
110		eed technology		(00)
		ouging		
		ff-types		
		enetic purity		
		ermination		
		eed vigour		
	7.	Seed		
B		r the following. (Any Five)		(05)
	1.			(**)
		Isolation distance		
		Physical purity		
		Classes of Seed		
		Seed marketing		
		Often cross pollination		
		Seed certification		
0.3		short notes. (Anyfive)		(10)
~		eplain the scope and goals of seeds technolog	ov?	(10)
		fferentiate between seed vs grains?	5) ·	
		raw the structure of seed and labelled it's par	ts?	
		fferentiate between seed production and grain		
		plain the board principles of seed certification		
		rite down the principles of seed production.	on agency.	
0.4		pt any Three/Long Questions/Example		(15)
Ų.ī			its tag colour and write down its both genetic and	(13)
	1.	physical purity percentage?	. 1 voicui ana mito domi no com generie dila	
	2	Explain the seed certification steps?		
	3.	•	66?	
	4.		and mega-gametogenesis with neat labelled	
		diagram?		