Date: 25/02/2022

To,

The Principal

K. K. Wagh College of Agriculture,

Nashik

Subject Regarding permission for Certificate Course.....

Respected Sir,

On behalf of the Department of Seed Science and Technology, we humbly request permission to initiate a Certificate course titled 'Hands on Training on Seed Quality Enhancement. This course is scheduled from 09/05/2022 to 14/05/2022 and will involve approximately 20 Third-year students. It is anticipated that this course will greatly benefit our students in enhancing their knowledge about advance technique and practical skills in different Seed quality parameter analysis. We kindly ask for your approval for the implementation of this course.

Thanking You,

Yours faithfully,

(Prof. S. A. Tilekar)

Course Coordinator



K. K. Wagh College of Agriculture,

(Affiliated to Mahatma Phule Krishi Vidyapeeth, Rahuri)

Saraswati Nagar, Panchavati, Nashik- 422 003. Maharashtra

College Code;11135

AISHE Code: C-50690

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## Certificate course in

'Hands on Training on: Seed Quality Enhancement.

Academic Year 2021-22

## **Syllabus Committee**

Sr. No.	Name of teacher	Designation	Department	Role in course
1	Mr. S.A.Tilekar	Assistant Professor	SST	Course coordinator
2	Dr.S.S.Bornare	Assistant Professor	Genetics and Plant	Committee member
			Breeding	
3	Mr. S. G. Thakare	Assistant Professor	Horticulture	Committee member
5	Ms. S. K. Sonawane	Assistant Professor	Plant Pathology	Committee member

Course Coordinator
(S.A. Tilekoz)

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**Principel PAL**K.K.Wagh College of Agribulture
Saraswatinagar, Panchavati, Nashi

Date:02/03/2022



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Date:02/03/2022

## Academic Year 2021-22 Department of Seed Science and Technology Minutes of the Board of Studies Meeting for the Short-Term Certificate Course

A meeting of the Board of Studies for the Short-term Certificate Course in 'Hands on Training on Seed Quality Enhancement. : was convened on 1 March 2022, at 12:00 PM in the Department of Seed science and Technology. The meeting was attended by the following Syllabus Design Committee members:

Sr no	Name of the expert	Designation	Sign
1	Dr. S. M. Hadole	Principal	L
2	Mr. S.A.Tilekar	Course Coordinator	(m)
3	Dr.S.S.Bornare	Member	(Sygnaxe
4	Mr. S. G. Thakare	Member	27 m2
5	Ms. S. K. Ahirrao	Member	Bruman.

Minutes of Meeting

The Board of Studies convened a meeting on 1 March 2022, at 12:00 PM in the Department of Seed Technology to address various aspects concerning the Short-Term Certificate Course in 'Hands on Training on: Seed Quality Enhancement. The meeting focused on the following key points:

- 1. Syllabus Formation: Members deliberated on developing a syllabus that emphasizes on relevant knowledge and skills in Seed quality parameters.
- 2. Dissemination of Work: Strategies for effectively teaching Seed Quality Enhancement techniques were discussed to aid students in the course.
- 3. Encouragement of Students: The meeting stressed the importance of offering guidance and motivation to students. Quality Seeds was recognized as an effective input for yield improvement in agriculture
- 4. Examination of Short-Term Course: The examination structure and assessment methods for the short-term course were reviewed. The board explored ways to ensure fair and comprehensive evaluations that accurately assess students'

The meeting concluded with a commitment to refine the course and its delivery methods to better meet the needs of students enrolled in the Certificate Course in 'Hands on Training on: Seed Quality Enhancement'

PRINCIPAL

K.K.Wagh College of Agriculture Saraswatinagus, Parahayati, Masnik



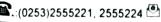
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## Department of Seed Science and Technology

## Certificate course in

## "Hands on training on Seed Quality Enhancement"

Academic Year 2021-22

#### Schedule of the course

Sr no	Topic	Description	Name of the	Department
1	What is Quality seed	Concept, Different types of quality parameters used in seed quality enhancement.	Prof. S. A. Tilekar	Seed science and Technology
2	Minimum seed certification standards	Study of different seed certification standards used in seed quality testing	Prof. S. A. Tilekar	Seed science and Technology
3	Test performed for quality analysis of seed.	Study of Different test perform for quality analysis of seed and actual performing of tests in laboratory	Prof. S.A.Tilekar	Seed science and Technology
4	Role of quality seed in yield improvement	Study of role of quality seed in improvement of yield and quality of produce.	Dr. S. S. Bornare	Genetics and Plant Breeding
5	Study of different field standards.	Details study of Isolation distance, Roughing, fields inspection and their role in quality seed production	Prof. S. K. Ahirrao	Plant Pathology
6	Seed storage and seed health.	Post harvent management of seed and precaution should taken during storage.	Prof. S.A.Tilekar	Seed science and Technology
7	Advantages of quality seed.	Role of quality seed in agriculture and future challenges in front of global seed industry.	Prof. S.A.Tilekar	Seed science and Technology

Course Coordinator (S.A. Meka)



PRHYICIPAL. K. K. Wagh College of Agriculture Saraswatinagar, Panchavati, Nashik-3



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## **Department Of Seed Science and Technology**

## Certificate course in 'Hands on Training on : Seed Quality Enhancement' Academic Year 2021-22

#### **Syllabus Outcomes:**

- Gain awareness about different seed quality parameters.
- 2. Perform various seed quality tests.
- Acquire knowledge on Effect of Different climatic condition on seed quality.
- Understand the role of seed quality in improving crop yield.
- Identify different methods to improved seed quality. 5.
- Examine the commercial aspects of Seed Testing

Sr no	Topic	Description	No of Lectures
1	What is Quality seed	Concept, Different types of quality parameters used in seed quality enhancement.	03 hours
2	Minimum seed certification standards.	Study of different seed certification standards used in seed quality testing.	03 hours
3	Test performed for quality analysis of seed.	Study of Different test perform for quality analysis of seed and actual performing of tests in laboratory.	06 hours
4	Role of quality seed in yield improvement	Study of role of quality seed in improvement of yield and quality of produce.	06 hours
5	Study of different field standards.	Details study of Isolation distance, Roughing, fields inspection and their role in quality seed production.	06 hours
6	Seed storage and seed health.	Post harvent management of seed and precaution should taken during storage.	06 hours
7	Advantages of quality seed.	Role of quality seed in agriculture and future challenges in front of global seed industry	06 hours
		Total	36 hours

Course Coordinator (S.A. TICKER)

K. K. Wagh College of Agriculture Saraswatinagar, Panchavati, Nashik-3



K. K. Wagh College of Agriculture,

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## Department of Seed Science and Technology

## Certificate course in "Hands on training on Seed Quality Enhancement"

## Academic Year 2021-22

	,	Time Ta			
Sr	Date	Т	ime	Торіс	
no					
1	09/05/2022	10.00 am-	03.00 pm -	Concept, Different types of quality	
		01.00 pm	05.00 pm	parameters used in seed quality	
				enhancement. Study of different seed	
				certification standards used in seed	
				quality testing	
2	10/05/2022	10.00 am-	03.00 pm -	Study of Different test perform for	
		01.00 pm	05.00 pm	quality analysis of seed and actual performing of tests in laboratory	
3	11/05/2022	10.00 am-	03.00 pm -	Study of role of quality seed in	
		01.00 pm	05.00 pm	improvement of yield and quality of produce.	
4	12/05/2022	10.00 am-	03.00 pm -	Details study of Isolation distance,	
		01.00 pm	05.00 pm	Roughing, fields inspection and their role in quality seed production	
5	13/05/2022	10.00 am-	03.00 pm -	Post harvent management of seed and	
		01.00 pm	05.00 pm	precaution should taken during storage.	
6	14/05/2022	10.00 am-	03.00 pm -	Advantages of quality seed	
		01.00 pm	05.00 pm		

Course Coordinator (3.4 Meleon)







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Date:04/03/2022

#### **Student Notice**

All the students of B. Sc. (Hons.) Agriculture final year are informed that for the academic year 2021-22 the Certificate Course on 'Hands on training on : Seed quality Enhancement " is starting from 09/05/2022 to 14/05/2022. For this certificate course students should submit their names to the Certificate Course Coordinator Assistant Prof. S. A. Tilekar up to 08/05/2022.

Duration: 36 Hrs. 09/05/2022 to 14/05/2022 Time: Morning Session: 10.00 am to 1.00 pm Afternoon session: 2.00pm to 5.00 pm

Note: This course is free of cost to all students.

Course Coordinator (8.A.17) elcor)

K. K. Wagh College of Agriculture Saraswatinagar, Panchavati, Nashik-3



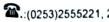
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## Department of Seed Science and Technology Certificate course in 'Hands on training on Seed Quality Enhancement' Academic Year 2021-22

#### **Enrolled Student List**

SR NO	REGISTRATION	NAME OF STUDENT
	NO	
1	AKN-2020/076	Nagare Gaurav Vilas
2	AKN-2020/078	Padol Shubham Bhaskar
3	AKN-2020/083	Patil Neha Ashok
4	AKN-2020/084	Patil Pranali Digambar
5	AKN-2020/085	Patil Sachin Vasudev
6	AKN-2020/086	Patil Vineet Shivaji
7	AKN-2020/093	Pune Bhakti Uttam
8	AKN-2020/094	Rao Sapna Kamlakar
9	AKN-2020/097	Sabale Payal Dnyaneshwar
10	AKN-2020/099	Samudra Sumedh Balu
11	AKN-2020/100	Sanap Mayur Santosh
12	AKN-2020/104	Shelar Shreya Shridhar
13	AKN-2020/106	Shinde Harshada Sadashiv
14	AKN-2020/108	Sonavane Shubham Anil
15	AKN-2020/110	Takawane Vaishnavi Ganesh
16	AKN-2020/117	Wadekar Avishkar Ashok
17	AKN/D-2021/006	Dhanave Mohini Arjun
18	AKN/D-2021/016	Sadgir Sanket Ramesh





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#### STUDENT REGISTRATION FORM

Academic Year: 2021-22

(Department of Seed Science and Technology)

Affix recent passport size photograph (colour)

#### **CERTIFICATE COURSE**

#### 'Hands on training on seed quality Enhancement'

For Department Use Only Registration No.:.... Student ID: Name of the Student: Mother's Name: ..... E-Mail ID: .... Address: .... State:.....PIN Code:... Mobile No: .....Alternate contact number:.... Gender: Male Female Other Religion: Date of Birth: Educational Qualification (at the time of admission): HSC ..... Other ..... Signature of Student Place: Date:



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## STUDENT REGISTRATION FORM

Academic Year: 2022-23

(Department of Seed Science and Technology)



#### **CERTIFICATE COURSE**

'Hands on training on seed quality Enhancement' For Department Use Only

•
Registration No.:. AKN.: 2020 1093  Student ID: 062002 1042
Name of the Student: Pune Bhakti uttam
Mother's Name: Pune Sangita UHam
Father's Name:
E-Mail ID: bbaktipunera @ gonail: (om)
Address: Brambangaon, Tal-kopergaon
State: Mahayashtya PIN Code: 4236a)
Mobile No: 7028024811 Alternate contact number:
Gender: Male Female Other Religion: Hindu
Date of Birth:2.8.110.120.02
Educational Qualification (at the time of admission):
HSC Other
Signature of Student
Place: Noshik

Date: 7/5/2



K K WAGH COLLEGE OF AGRICALTURE, NASHIK Department of Seed Science and Technology

Certificate course in Hands on Training on Seed Quality Enhancement'
Academic Year 2021-22

Sr no	Registration no	Name of studentsDate:	50/60	09/05/2022	Academic 10/05/2022	<b>≍</b>	ear 2021-22 11/05/2	11/05/2022	12/05	12/05/2022	13/05/2022	2022	14/05/2022	:022
		Time:	10.00-1.00	2.00-5.00	10.00-1.00	2.00-5.00	10.00-1.00	2.00-5.00	10.00-1.00	2.00-5.00	10.00-1.00	2.00-5.00	10:00-1:00	2.00-5.00
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3	AKN-2020/083	Patil Neha Ashok	17rode	A Prodil	THOOFF	RPOOKIL	thody	Hodel	A pochil	Hody	Procedil	S. F. DOD!	Hoati	A Dew
4	AKN-2020/084	Patil Pranali Digambar	Pend	Orango James	3		25	3	Grand Grand	3	3	3	D. James	The state of the s
2	AKN-2020/085	Patil Sachin Vasudev	AND S	The Ball	京	THE REPORT OF THE PERSON OF TH	STATE OF THE PARTY	000	City H	STATE OF THE PARTY	OFFICE AND THE PROPERTY OF THE	C. F.	1000	A STATE OF THE PARTY OF THE PAR
9	AKN-2020/086	Patil Vineet Shivaji	Wand	Nound Nound		Sail			Year	Vision	Paid	Lain	Paris	Valid
7	AKN-2020/093	Pune Bhakti Uttam	M	M	MA TO THE PART OF	WH	A	Total Control	H	1 (A)	A A	Ma	A A	P AF
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6	AKN-2020/097	Sabale Payal Dnyaneshwar	Pabole	Bobole	modos O	Thodoso	Moder (	Thouse of	Poobod	Cearce!	Thousand	modres d	-marga	Babaut
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=	AKN-2020/100	Sanap Mayur Santosh	J.K.		Jan Jan	A A	A)	a for	No.	H	Ser S	Sep.	or or	3
12	AKN-2020/104	Shelar Shreya Shridhar	Salua Salua	**************************************	Shelve	Shelox	4 salvallo	2017	Shelos	3	TOTAL	Solar S	100	Shelp
13	AKN-2020/106	Shinde Harshada Sadashiv	Bernade	Halinde	Bernale	Herinde	(A) Adving	Secretary (H)	Holinge	Harring H	Helmale	ALTE T	Harake Harake	Helwing
4	AKN-2020/108	Sonavane Shubham Anil (	The state of	The state of the s		The state of the s	A A	1	1	V	H	#	t	H
15	AKN-2020/110	Takawane vaishnavi Ganesh	3	B	(all	1	A)	B	d	S	B	are	A	O3
16	AKN-2020/117	Wadekar Avishkar Ashok	Calde	Contraction of the second	La Salan	September 1	C. Commercial	1000 B	Contraction of the second	23000	503	33	The state of the s	A STATE OF THE PROPERTY OF THE
17	AKN/D- 2021/006	Dhanave Mohini Arjun	may ( Win	) Amounders	The state of the s	600 CO		market &	man (des)	marketin	marketer	and and	- Marken	North No.
∞_	AKN/D- 2021/016	Sadgir Sanket Ramesh	A A	THE SE	200	N SWN	ASHIK-3	RICU	2	2	*	Se la	1/2	L
		Course Coordinasor				*/	Carlo Carlo		K K.	PRIN Wagh Colle	CIPAL Ge of Agree	Milling.		



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#### Department of Seed Science and Technology

Certificate course in Hands on training on seed quality Enhancement Academic Year 2021-22

#### **Exam Time Table**

All enrolled students of the Certificate Course are hereby informed that for the academic year 2021-22, the Certificate Course on 'Vegetable Grafting: Concept and Application' has been completed. The examination for this certificate course is scheduled to be conducted on 21/03/2023. Therefore, all students are required to be present without exception.

Note: Time Table is as follow

Sr no	Date	Time	Certificate course subject
1	20/05/2022	01:00 to 02:00 pm	Theory exam: Hands on training on seed quality enhancement
2		02:00 to 03:00 pm	Practical Exam: Hands on training on seed quality enhancement

Course Coordinator CS.A. Melcor)

Exam Incharge

L'K PhilidiBall K. K. Wagh College of Agriculture Saraswatinagar, Panchavati, Nashik-3





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## Certificate course in 'Hands on training on : Seed quality Enhancement' Academic Year 2021-22

## **Examination Methodology**

Sr no	Nature of exam	Marks
1	Written	30
2	Practical	20
3	Total	50

#### Reference:

- 1) . Black Michael H, Peter H. The encyclopedia of seeds: science, technology and uses. Wallingford, UK: CABI, 2006, 224. ISBN 978-0-85199-723-0.
- 2) .. Anonymous. Processing of the oil seed meet. Tamil Nadu Agriculture University, Coimbatore, 200
- 3) . Dastanpoor N, Hamid F, Mansour S, Saeid D, Sayed MM. Effects of hydropriming on seed germination and seedling growth in sage (Salvia officinalis L.). African J. Biotechnol. 2013; 12(11):1223-1228.
- 4) International Rules for Seed Testing. ISTA (1985) Seed Science & Technology 13: 299-335. a. Jenson, H.A. (1984) Report of the Flower Seed Committee 1980-83 Seed Science & Technology 12: 319-332.
- 5) Seed Technology by R.L.Agrawal.

6) 3. Heydecker W. Accelerated germination by osmotic seed treatment. Nature. 1973; 246:42-44

**Course Coordinator** (8.A. Mekor)

K. K. Wagh College of Agriculture Saraswatinagar.Panchavati,Nashik-3



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## Department of Seed Science and Technology

Certificate course in

## Hands on training on seed quality Enhancement

Academic Year 2021-22

#### **Exam Block Report**

Class- Final Year Date- 20/05/2022

Subject: Theory Paper of Hands on training on seed quality Enhancement

Block no: 02

SR NO	REGISTRATION NO	NAME OF STUDENT	SIGN
1	AKN-2020/076	Nagare Gaurav Vilas	
2	AKN-2020/078	Padol Shubham Bhaskar	Spradol.
3	AKN-2020/083	Patil Neha Ashok	DAPAHT
4	AKN-2020/084	Patil Pranali Digambar	guel
5	AKN-2020/085	Patil Sachin Vasudev	Elix
6	AKN-2020/086	Patil Vineet Shivaji	Rank
7	AKN-2020/093	Pune Bhakti Uttam	Bus
8	AKN-2020/094	Rao Sapna Kamlakar	Tanky
9	AKN-2020/097	Sabale Payal Dnyaneshwar	Popule
10	AKN-2020/099	Samudra Sumedh Balu	Sunalh BS
11	AKN-2020/100	Sanap Mayur Santosh	San
12	AKN-2020/104	Shelar Shreya Shridhar	Thelan
13	AKN-2020/106	Shinde Harshada Sadashiv	Aldinde
14	AKN-2020/108	Sonavane Shubham Anil	Del.
15	AKN-2020/110	Takawane Vaishnavi Ganesh	Quel
16	AKN-2020/117	Wadekar Avishkar Ashok	
17	AKN/D-2021/006	Dhanave Mohini Arjun	mohause.
18	AKN/D-2021/016	Sadgir Sanket Ramesh	III

NASHIK

Total no of student: | 8 No of student present: 18

No of students absent: 00

Name and Sign of Jr. Supervisor (D'R'pwii)

Name and Sign of Sr. Supervisor

## K. K. Wagh College of Agriculture, Nashik

## Department of Seed science and Technology

Certificate course in: Hands on training on seed quality enhancement

## Academic Year 2021-22 THEORY EXAMINATION

Class:	Щта	Semester:	$\overline{\nabla}$
Day & Date:	2015/2022	Time:	1-2
Subject:		Marks:	30
Name of student:		Registration no:	

## **Multiple Choice Questions**

Q 1. Physical purity of certified seed sho	
	b) 95%
c) 98%	d) 99%
Q 2.Genetic purity of seed is determine	by
a) Germination test	b) Physical purity test
c) Viability test	d) Grow out test
Q.3 which class of seed used by farmer	for sowing purpose
a) Nuclear seed	b) Breeder seed
c) Certified seed	d) Foundation seed
Q.4 Isolation distance for bajra crop is	
a) 1000 meter	b) 200 meter
c) 1500 meter	d) 700 meter
Q.5 Germination percentage of soybean	crop is
a) 90 %	b) 80%
c) 70%	d) 75%
Q.5 Isolation distance for soybean crop	is
a) 5 m	b) 10 m
c) 20 m	d) 3 m
Q.6 NSC was established in a year	
a) 1963	b) 1962
c) 1961	d) 1960
Q.7 Headquarter of Mahabeej is located	at
a) Mumbai	b) Nagpur
c) Akola	d) Amravati
Q 8. Mode of pollination of pigeon pea is	S
Self pollinated	2. Cross pollinated
3. Often cross pollinated	4. None of above
9. ISTA means	1 2000

a) International seed testing	b) International seed testing agency				
association					
c) International seed testing agreement	d) International seed testing analyst				
Q.10 Seed Act was pass in the year					
a) 1966	b) 1967				
c) 1968	d) 1970				
Q.11 Which of the following is genetic princi	ple of quality seed production				
a) Developmental variation	b) Mechanical Admixture				
c) Isolation distance	d) Mutation				
Q.12 Isolation distance is maintain for					
a) Genetic purity	b) Physical purity				
c) Seed germination	d) None of above				
Q.13 which of the following test is used to de					
a) Physical purity test	b) Grow out test				
c) Germination test	d) TZ solution test				
Q.14 which of the following test is used to de					
a) Physical purity test	b) Grow out test				
c) Germination test	d) Brick graval test				
Q.15 Which sample actually used in seed test					
tests	ing indolutory for performing different				
a) Composite sample	b) Submitted sample				
c) Working sample	d) None of above				
Q 16. Which tag is used for Breeder seed					
a) White	b)Black				
c)Grey	d) Golden yellow				
Q 17.Germination percentage of wheat is	, , , , , , , , , , , , , , , , , , , ,				
b) 80%	c) 85%				
d) 90%	e) 95%				
Q.18 Validity period for seed certificate is	3) 7370				
a) 11 month	b) 9 month				
c) 12 month	d) 10 month				
Q.19 ISTA was established in a year	a) To month				
a) 1925	b) 1924				
c) 1923	d) 1922				
Q.20 which scientist give genetic principles of	Seed production				
a) Kadam	b) N.A.Vavilov				
c) Johnson					
Q.21. Simultaneously maturation of male and	d) None of above				
a) Synchronisation					
c) Isogamy	b) Mutation				
Q.22. Varieties comes under seed act known a	d) None of above				
a) Notified varieties					
a) Notified varieties	b) Land races				



c) Farmers variety				
Q.23 Present of B line in a A line	d) None of above			
a) Pollen shedder				
c) Trap crop	b) Marker plant			
Q 24. Mode of pollination of bajra is	d) None of above			
a) Self pollinated				
c) Often are the billion of the control of the cont				
c) Often cross pollinated Q 25. Breeder seed is a	d) None of above			
Q 25. Breeder seed is a progeny of				
a) Nuclear seed	b) Foundation seed			
c) Certified seed	d) Registered seed			
Q.26. Foundation seed is a progeny of				
a) Breeder seed	b) Certified seed			
c) Nuclear seed	d) Foundation seed			
Q.27seed is genetically 100% pure.				
a) Breeder seed	b) Certified seed			
c) Nuclear seed	d) Foundation seed			
Q.28 Head quarter of NBPGR is located at				
a) Hydrabad	b) Mumbai			
c) Delhi	d) Kolkata			
Q.29. Coconut is a Type of seed	d) Roman			
a) Orthodox seed	b) Recalcistrant seed			
c) Synthetic seed	d) None of above			
Q.30 Physical purity test is carried out by usi				
a) Germinator	b) Purity work board			
c) Aspirator	d) Seed counter			





# K. K. Wagh College of Agriculture, Nashik Department of Seed science and Technology Certificate course in: Hands on training on seed quality enhancement

Academic Year 2021-22

## THEORY EXAMINATION

Class:	Thay la	Semester:	V
Day & Date:	20 5 2022	Time:	1-2
Subject:	GPB	Marks:	30
Name of student:	Pune Bhakti	Registration no:	093/2020

## **Multiple Choice Questions**

	Q 1. Physical purity of certified seed should be				
	a) 90% b) 95%				
	98%	d) 99%			
	Q 2.Genetic purity of seed is determine by				
	a) Germination test b) Physical purity test				
	c) Viability test	Grow out test			
	Q.3 which class of seed used by farmer for sowing purpose				
	a) Nuclear seed	b) Breeder seed			
	Certified seed	d) Foundation seed			
Q.4 Isolation distance for bajra crop is					
	1000 meter	b) 200 meter			
	c) 1500 meter	d) 700 meter			
	©.5 Germination percentage of soybean crop is				
	a) 90%	b) 80%			
	70%	d) 75%			
	Q.5 Leolation distance for soybean crop is				
	a) 5 m	b) 10 m			
	c) 20 m	₩ 3 m			
[	Q.6 NSC was established in a year				
*\( \)	a) (963)	b), (962			
	c) 1961	A) 1960			
	Q.7 Headquarter of Mahabeej is located at				
	a) Mumbai	b) Nagpur			
	(c) Akola	d) Amravati			
	Q 8. Mode of pollination of pigeon pea is				
	1. Self pollinated	2. Cross pollinated			
	3. Often cross pollinated	4. None of above			
K	Q 9. ISTA means				



4					
a) International seed testing association	b) International seed testing agency				
International seed testing agreement	d) International seed testing analyst				
Q.10 Seed Act was pass in the year					
( a) 1966 . b) 1967					
c) 1968	d) 1970				
Q.11 Which of the following is genetic princi					
a) Developmental variation b) Mechanical Admixture					
c) Isolation distance	Mutation				
Q.12 Isolation distance is maintain for					
a) Genetic purity	b) Physical purity				
c) Seed germination	d) None of above				
Q.13 which of the following test is used to de	termine seed viability				
a) Physical purity test	b) Grow out test				
c) Germination test	TZ solution test				
Q.14 which of the following test is used to de	termine seed vigour				
a) Physical purity test	b) Grow out test				
c) Germination test	Brick graval test				
Q.15 Which sample actually used in seed testing laboratory for performing different					
tests					
a) Composite sample	b) Submitted sample				
Working sample	d) None of above				
Q 16. Which tag is used for Breeder seed					
a) White	b)Black				
c)Grey	d) Golden yellow				
Q 17.Germination percentage of wheat is					
b) 80%	e) 85%				
d) 90%	e) 95%				
Q.18 Validity period for seed certificate is					
a) 11 month	b) 9 month				
c) 12 month	d) 10 month				
Q ISTA was established in a year					
a) 1925	b) 1924				
1923	d) 1922				
Q.20 which scientist give genetic principles of	seed production				
A Kadam	b) N.A.Vavilov				
c) Johnson d) None of above					
Q.21. Simultaneously maturation of male and female flower known as					
Synchronisation	b) Mutation				
c) Isogamy	d) None of above				
Q.22. Varieties comes under seed act known a					
Notified varieties	b) Land races				
OLLEGE	OF				

NASHIK-3

c) Farmers variety	d) None of above			
Q.23 Present of B line in a A line				
Pollen shedder	b) Marker plant			
c) Trap crop	d) None of above			
O.24 Mode of pollination of baira is				
a) Self pollinated by Cross pollinated				
Often cross pollinated	d) None of above			
Q 25. Breeder seed is a progeny of				
Nuclear seed b) Foundation seed				
c) Certified seed	d) Registered seed			
Q.26. Foundation seed is a progeny of				
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O.30 Physical purity test is carried out by using				
a) Germinator	Purity work board			
c) Aspirator d) Seed counter				





K. K. Wagh College of Agriculture,

(Affiliated to Mahatma PhuleKrishiVidyapeeth, Rahuri)

Saraswati Nagar, Panchavati, Nashik- 422 003. Maharashtra

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## Department of Seed Science and Technology

#### Certificate course in 'Hands on training on Seed Quality Enhancement' Academic Year 2021-22

#### Student Result

Sr. No.	Registration no	Name of the students	Theory marks (30)	Practical Marks (20)	Mark Out of Total 50
1	AKN-2020/076	Nagare Gaurav Vilas	25	18	43
2	AKN-2020/078	Padol Shubham Bhaskar	28	19	47
3	AKN-2020/083	Patil Neha Ashok	26	17	43
4	AKN-2020/084	Patil Pranali Digambar	27	18	45
5	AKN-2020/085	Patil Sachin Vasudev	27	19	46
6	AKN-2020/086	Patil Vineet Shivaji	27	19	46
7	AKN-2020/093	Pune Bhakti Uttam	27	19	46
8	AKN-2020/094	Rao Sapna Kamlakar	29	13	47
9	AKN-2020/097	Sabale Payal Dnyaneshwar	27	18	45
10	AKN-2020/099	Samudra Sumedh Balu	27	17	44
11	AKN-2020/100	Sanap Mayur Santosh	28	18	46
12	AKN-2020/104	Shelar Shreya Shridhar	27	19	46
13	AKN-2020/106	Shinde Harshada Sadashiv	28	19	47
14	AKN-2020/108	Sonavane Shubham Anil	26	18	44
15	AKN-2020/110	Takawane Vaishnavi Ganesh	26	19	45
16	AKN-2020/117	Wadekar Avishkar Ashok	27	9	. 46
17	AKN/D- 2021/006	Dhanave Mohini Arjun	28	18	46
18	AKN/D- 2021/016	Sadgir Sanket Ramesh	26	19	45





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#### Department of Seed Science and Technology Certificate course in "Hands on training on Seed Quality Enhancement' Academic Year 2021-22

#### Report

K.K.Wagh Education Society's K.K.Wagh College of Agriculture, Saraswati Nagar, Nashik which provide education in agriculture at U.G. level students. College has to decide introduce new Certificate Course in". Total 18 students are enrolled from department of Horticulture. Due to this certificate course in ""Hands on training on seed quality Enhancement" Students get more knowledge of different type of Seed Quality and its application in agriculture to improve seed yield and quality.

#### Course outcome

- 1) Gain awareness of historical and current perspectives of Seed Quality.
- 2) Perform practical on various seed testing methods.
- 3) Acquire knowledge on seed quality and its important in agriculture.
- 4) Understand the role of Post harvest management of seed and precaution should take during storage in quality seed production.
- 5) Examine the commercial aspects of quality seed production.

Students are able to understand advance methods of seed testing and its application in Agriculture. It helps in improve their knowledge about quality seed production. This will help to improve their Problem-solving skill. Students understand that the quality seed play very important role in yield improvement. This course also helps to motivate students to improve their entrepreneurship skill. In academic year 2022-23 eighteen students are enrolled for this certificate course. Course structure had been divided into theory and theory practical. Theory has 30 marks while theory practical has 20 marks weightage examination has been conducted for total 50 marks. Duration for this certificate course is 09/005/2022 to 14/05/2022 (Total 36 hrs.). The students who successfully completed the certificate course were given a certificate as appreciation by the college.

Course coordinator is Mr. S. A. Tilekar and member for this certificate course are, Dr. S. S. Bornare, and Ms. S.K. Sonawane.

Course Coordinator

Principal PRINCIPAL K.K.Wagh College of Agriculture Safaswatinagar, Panchavati, Nas.

