Seat No: _____

PARUL UNIVERSITY COLLEGE OF AGRICULTURE

B.Sc. (Hons.) Agriculture Winter 2019 - 20 Examination

	e Winter 2019 - 20 Examination	
Semester: 4	Date: 10/1	
Subject Code: 20108253 Subject Name: Production Tachnology for Fruit and		0 pm to 4:30 pm
Subject Name: Production Technology for Fruit and	l Plantation crops Total Ma	rks: 50
Instructions		
 All questions are compulsory. Events to the right indicate full marks 		
2. Figures to the right indicate full marks.		
 Make suitable assumptions wherever necessary. Start new question on new page. 		
Q.1 Do as Directed.		
A. Fill in the blanks. (Each of 0.5 mark)		(05)
1. Which fruit is known as a "Tree of Heaven"		(05)
2. Significance increase number of fruit pe		application
of		approvident
3. Fruit cracking physiological disorder is due	to deficiency of .	
4 is the removal of low h		he orchard
operations.		
5. IBA stands for		
6is the removal of branches in	side the tree which cross over the centre	of the tree
restricting the penetration of spray.		
7Fruit is the rich source of pectin.		
8. Botanical name of papaya is		
9. In mango specific gravity of most of the fruit	it is reaching betweenand	_•
10. Commercially guava is propagated through_		
B. Multiple choice type questions. (Each of 0.5 n		(10)
1. Soft nose in mango is due todeficier		
a) B	c) Mo	
b) Ca	d) Zn	
2. Matured ripened ovary is known as a		
a) Flower	c) Fruit	
b) both a and c	d) NONE	
 Amrapalli variety of mango is cross of a) Neelum × Dashehari 	 c) Neelum × Alphonso	
b) Dashehari \times Neelum	· •	
4. Which species of mango is completely free f	u) inplicable // incontain	
a) <i>M. mangifera</i>		
b) <i>M. indica</i>	d) NONE	
5. Which type of inflorescence present in many		
a) Terminal panicle	c) Composite	
b) Umbel	d) Spike	
6. Which fruit is known as a Bathroom fruit		
a) Banana	c) Mango	
b) Papaya	d) Coconut	
7. Banana Bunchy top viral disease is transmitte		
a) Aphid	c) Jassid	
b) Both a and c	d) Thrips	
8. Madhu bindu is the variety of cro	p.	
a) Mango	c) Papaya	
b) Ber	d) Amla	
Allahabad Safeda is the famous variety of	Fruit crop.	
a) Coconut	c) Apple	
b) Guava	d) NONE	
10. Mallika hybrid variety of mango is cross of		
a) Neelum × Dashehari	c) Neelum × Alphonso	
b) Dashehari × Neelum	d) Alphonso \times Neelum	
11 is the physiological disorder of r		
a) Mango malformation	c) Soft nose	
b) Spongy tissue	d) All of the above	
		Dage 1 of 7

Enrollment No: _____

10.1			
	Which variety of mango used in HDP		
	a) Alphonso	c) Amrapali d) Badarr	
	b) Kesar	d) Badam	
	Botanical name of guava is a) Psidium guajava	c) Malus domestica	
	b) Mangifera indica	d) NONE	
	Family of mango	d) NOINE	
	a) Aracaceae	c) Myrtaceae	
	b) Anacardeaceae	d) NONE	
	are the variety of banana.	d) NOINE	
	a) Poovan	c) Rasthali	
	b) Grand Naine	d) All of the above	
	Banana is propagated through		
	a) Suckers	c) Tissue culture	
	b) Seed	d) Both a and c	
	Most commonly papaya is propagated through_	,	
	a) Seed	c) Asexual propagation	
	b) Both a and c	d) NONE	
	is the vector of papaya mosaic	·	
	a) Jassid	c) Aphid	
	b) White fly	d) None	
	Most serious pest of coconut	-,	
	a) Rhinoceros beetle	c) Coconut mite	
	b) Black headed caterpillar	d) Red palm weevil	
	Highest papain content variety of papaya is	· ·	
	a) CO-2	c) CO-1	
	b) CO-6	d) All of the above	
Q.2 Do a	Directed		
Q.2 D0 a	is Directeu.		
-	ne the following. (Any 5 out of 7) (1 mark ea	ch)	(05)
A. Defi		ch)	(05)
A. Defi 1.	ne the following. (Any 5 out of 7) (1 mark ea	ch)	(05)
A. Defi 1. 1 2. 7 3. 1	ne the following. (Any 5 out of 7) (1 mark ea Productivity Fapka stage Propagation	ch)	(05)
A. Defi 1. 1 2. 7 3. 1 4. 5	ne the following. (Any 5 out of 7) (1 mark ea Productivity Γapka stage Propagation Seed dormancy	ch)	(05)
A. Defi 1. 1 2. 7 3. 1 4. 5 5. 1	ne the following. (Any 5 out of 7) (1 mark ea Productivity Fapka stage Propagation Seed dormancy Plant growth regulator	ch)	(05)
A. Defi 1. 1 2. 7 3. 1 4. 5 5. 1 6. 0	ne the following. (Any 5 out of 7) (1 mark ea Productivity Fapka stage Propagation Seed dormancy Plant growth regulator Grafting	ch)	(05)
A. Defi 1. 1 2. 7 3. 1 4. 5 5. 1 6. 0 7. 1	ne the following. (Any 5 out of 7) (1 mark ea Productivity Fapka stage Propagation Seed dormancy Plant growth regulator Grafting Fruit		
A. Defi 1. 1 2. 7 3. 1 4. 5 5. 1 6. 6 7. 1 B. Ans	ne the following. (Any 5 out of 7) (1 mark ea Productivity Fapka stage Propagation Seed dormancy Plant growth regulator Grafting Fruit wer the following. (Any 5 out of 7) (1 mark e		(05)
A. Defi 1. 1 2. 7 3. 1 4. 5 5. 1 6. 0 7. 1 B. Ans 1. 1	ne the following. (Any 5 out of 7) (1 mark ea Productivity Fapka stage Propagation Seed dormancy Plant growth regulator Grafting Fruit wer the following. (Any 5 out of 7) (1 mark e Enlist the types of Budding.		
A. Defi 1. 1 2. 7 3. 1 4. 5 5. 1 6. 6 7. 1 B. Ans 1. 1 2. 7	ne the following. (Any 5 out of 7) (1 mark ea Productivity Tapka stage Propagation Seed dormancy Plant growth regulator Grafting Fruit wer the following. (Any 5 out of 7) (1 mark e Enlist the types of Budding. Give the example of plant growth regulators.		
A. Defi 1. 1 2. 7 3. 1 4. 5 5. 1 6. 6 7. 1 B. Ans 1. 1 2. 6 3. 1	ne the following. (Any 5 out of 7) (1 mark ea Productivity Tapka stage Propagation Seed dormancy Plant growth regulator Grafting Fruit wer the following. (Any 5 out of 7) (1 mark e Enlist the types of Budding. Give the example of plant growth regulators. List out the different varieties of banana.		
A. Defi 1. 1 2. 7 3. 1 4. 5 5. 1 6. 6 7. 1 B. Ans 1. 1 2. 6 3. 1 4. 1	ne the following. (Any 5 out of 7) (1 mark ea Productivity Tapka stage Propagation Seed dormancy Plant growth regulator Grafting Fruit wer the following. (Any 5 out of 7) (1 mark e Enlist the types of Budding. Give the example of plant growth regulators. List out the different varieties of banana. Enlist the varieties of mango.		
A. Defi 1. 1 2. 7 3. 1 4. 5 5. 1 6. 0 7. 1 B. Ansy 1. 1 2. 0 3. 1 4. 1 5. 1 5. 1 5. 1 5. 1 6. 0 7. 1 8. Ansy 1. 1 5. 1 5. 1 6. 0 7. 1 8. Ansy 1. 1 5. 1 5. 1 5. 1 6. 0 7. 1 8. Ansy 1. 1 5. 1 5	ne the following. (Any 5 out of 7) (1 mark ea Productivity Fapka stage Propagation Seed dormancy Plant growth regulator Grafting Fruit wer the following. (Any 5 out of 7) (1 mark e Enlist the types of Budding. Give the example of plant growth regulators. List out the different varieties of banana. Enlist the varieties of mango. Maturity indices of banana.		
A. Defi 1. 1 2. 7 3. 1 4. 5 5. 1 6. 6 7. 1 B. Ansy 1. 1 2. 6 3. 1 4. 1 5. 1 6. 6 3. 1 6. 6 3. 1 6. 6 6. 6 6. 6 7. 1 6. 6 6. 6 7. 1 6. 6 7. 1 7. 1 8. 4 8. 4 8. 4 8. 4 8. 4 8. 4 8. 4 8. 6 8. 4 8. 6 8. 4 8. 4 8. 6 8. 7 8. 7	ne the following. (Any 5 out of 7) (1 mark ea Productivity Tapka stage Propagation Seed dormancy Plant growth regulator Grafting Fruit wer the following. (Any 5 out of 7) (1 mark e Enlist the types of Budding. Give the example of plant growth regulators. List out the different varieties of banana. Enlist the varieties of mango. Maturity indices of banana. Give the botanical name and family of papaya.	ach)	
A. Defi 1. 1 2. 7 3. 1 4. 8 5. 1 6. 6 7. 1 B. Ansv 1. 1 2. 6 3. 1 4. 1 5. 1 6. 6 7. 1 7. 1 7. 1 8. Ansv 1. 1 7. 1 7. 1 8. Ansv 1. 1 7. 1 7. 1 8. Ansv 7. 1 7. 1 7. 1 8. 2 7. 1 7. 1 7.1	ne the following. (Any 5 out of 7) (1 mark ea Productivity Tapka stage Propagation Seed dormancy Plant growth regulator Grafting Fruit wer the following. (Any 5 out of 7) (1 mark e Enlist the types of Budding. Give the example of plant growth regulators. List out the different varieties of banana. Enlist the varieties of mango. Maturity indices of banana. Give the botanical name and family of papaya. Give the control measures for mango malforma	ach) tion physiological disorder of mango.	(05)
A. Defi 1. 1 2. 7 3. 1 4. 5 5. 1 6. 6 7. 1 B. Ansy 1. 1 2. 6 3. 1 4. 1 5. 1 6. 6 7. 1 B. Ansy 1. 1 2. 6 3. 1 4. 5 7. 1 0. 6 7. 1 0. 7 1.	ne the following. (Any 5 out of 7) (1 mark ea Productivity Tapka stage Propagation Seed dormancy Plant growth regulator Grafting Fruit wer the following. (Any 5 out of 7) (1 mark e Enlist the types of Budding. Give the example of plant growth regulators. List out the different varieties of banana. Enlist the varieties of mango. Maturity indices of banana. Give the botanical name and family of papaya. Give the control measures for mango malforma te short notes. (Any5 out of 6) (2 marks each	ach) tion physiological disorder of mango.	
A. Defi 1. 1 2. 7 3. 1 4. 5 5. 1 6. 6 7. 1 B. Ansy 1. 1 2. 6 3. 1 4. 1 5. 1 6. 6 7. 1 8. Ansy 1. 1 7. 1 8. 0 7. 0	ne the following. (Any 5 out of 7) (1 mark ea Productivity Tapka stage Propagation Seed dormancy Plant growth regulator Grafting Fruit wer the following. (Any 5 out of 7) (1 mark e Enlist the types of Budding. Give the example of plant growth regulators. List out the different varieties of banana. Enlist the varieties of mango. Maturity indices of banana. Give the botanical name and family of papaya. Give the control measures for mango malforma te short notes. (Any5 out of 6) (2 marks each Explain desuckering in Banana.	ach) tion physiological disorder of mango.	(05)
A. Defi 1. 1 2. 7 3. 1 4. 5 5. 1 6. 6 7. 1 B. Ansy 1. 1 2. 6 3. 1 4. 1 5. 1 6. 6 7. 1 B. Ansy 1. 1 2. 6 3. 1 4. 1 5. 1 6. 6 7. 1 B. Ansy 1. 1 2. 6 3. 1 4. 1 2. 6 3. 1 4. 1 2. 6 3. 1 4. 2 5. 1 6. 6 7. 1 8. Ansy 1. 1 2. 6 3. 1 4. 1 5. 1 6. 6 7. 1 8. Ansy 1. 1 2. 6 7. 6 7. 1 8. 2 7. 1 9. 1	ne the following. (Any 5 out of 7) (1 mark ea Productivity Tapka stage Propagation Seed dormancy Plant growth regulator Grafting Fruit wer the following. (Any 5 out of 7) (1 mark e Enlist the types of Budding. Give the example of plant growth regulators. List out the different varieties of banana. Enlist the varieties of mango. Maturity indices of banana. Give the botanical name and family of papaya. Give the control measures for mango malforma te short notes. (Any5 out of 6) (2 marks each Explain desuckering in Banana. Importance and scope of Plantation crops.	ach) tion physiological disorder of mango.	(05)
A. Defi 1. 1 2. 7 3. 1 4. 8 5. 1 6. 6 7. 1 B. Ansy 1. 1 2. 6 3. 1 4. 1 5. 1 6. 6 7. 1 0. 7 0. 1 1. 1 2. 7 1. 1 2. 6 3. 1 4. 1 5. 1 6. 6 7. 1 0. 7 1. 1 2. 6 3. 1 4. 1 5. 1 6. 6 7. 1 8. Ansy 7. 1 6. 6 7. 1 8. Ansy 7. 1 6. 6 7. 1 8. 2 8. 1 1. 1 2. 6 7. 1 8. 2 8. 2	ne the following. (Any 5 out of 7) (1 mark ea Productivity Tapka stage Propagation Seed dormancy Plant growth regulator Grafting Fruit wer the following. (Any 5 out of 7) (1 mark e Enlist the types of Budding. Give the example of plant growth regulators. List out the different varieties of banana. Enlist the varieties of mango. Maturity indices of banana. Give the botanical name and family of papaya. Give the control measures for mango malformative te short notes. (Any5 out of 6) (2 marks each Explain desuckering in Banana. Importance and scope of Plantation crops. Explain propping in Banana.	ach) tion physiological disorder of mango.	(05)
A. Defi 1. 1 2. 7 3. 1 4. 5 5. 1 6. 6 7. 1 B. Ansy 1. 1 2. 6 3. 1 4. 1 5. 1 6. 6 7. 1 B. Ansy 1. 1 2. 6 3. 1 4. 1 5. 1 6. 6 7. 1 B. Ansy 1. 1 2. 6 3. 1 4. 1 5. 1 6. 6 7. 1 8. Ansy 1. 1 2. 6 3. 1 4. 2 5. 1 6. 6 7. 1 8. Ansy 1. 1 2. 6 7. 6 7. 1 8. 2 8. 2 9. 1 9.	ne the following. (Any 5 out of 7) (1 mark ea Productivity Tapka stage Propagation Seed dormancy Plant growth regulator Grafting Fruit wer the following. (Any 5 out of 7) (1 mark e Enlist the types of Budding. Give the example of plant growth regulators. List out the different varieties of banana. Enlist the varieties of mango. Maturity indices of banana. Give the botanical name and family of papaya. Give the control measures for mango malforma te short notes. (Any5 out of 6) (2 marks each Explain desuckering in Banana. Importance and scope of Plantation crops. Explain propping in Banana. Selection of seedling for planting of coconut.	ach) tion physiological disorder of mango.	(05)
A. Defi 1. 1 2. 7 3. 1 4. 5 5. 1 6. 6 7. 1 B. Ansy 1. 1 2. 6 3. 1 4. 1 5. 1 6. 6 7. 6 Q.3 Writh 1. 1 2. 7 3. 1 4. 2 5. 1 6. 6 7. 1 8. Ansy 1. 1 2. 6 3. 1 4. 1 5. 1 6. 6 7. 1 8. Ansy 1. 1 2. 6 7. 6 7. 1 8. 2 7. 1 8. 2 8. 2 7. 1 8. 2 8. 3 8. 4 8. 5 8. 5 8. 5 8. 5 8. 5 8. 5 8. 5	ne the following. (Any 5 out of 7) (1 mark ea Productivity Tapka stage Propagation Seed dormancy Plant growth regulator Grafting Fruit wer the following. (Any 5 out of 7) (1 mark e Enlist the types of Budding. Give the example of plant growth regulators. List out the different varieties of banana. Enlist the varieties of mango. Maturity indices of banana. Give the botanical name and family of papaya. Give the control measures for mango malforma te short notes. (Any5 out of 6) (2 marks each Explain desuckering in Banana. Importance and scope of Plantation crops. Explain propping in Banana. Selection of seedling for planting of coconut. Nursery management of coconut.	ach) tion physiological disorder of mango.	(05)
A. Defi 1. 1 2. 7 3. 1 4. 2 5. 1 6. 0 7. 1 B. Ansy 1. 1 2. 0 3. 1 4. 1 5. 1 6. 0 7. 1 B. Ansy 1. 1 2. 0 3. 1 4. 1 5. 1 6. 0 7. 1 B. Ansy 1. 1 2. 0 3. 1 4. 2 5. 1 6. 0 7. 1 B. Ansy 1. 1 2. 0 3. 1 4. 2 5. 1 6. 0 7. 1 B. Ansy 1. 1 2. 0 3. 1 4. 2 5. 1 6. 0 7. 1 B. Ansy 1. 1 2. 0 7. 0 8. 2 7. 1 8. 2 8.	ne the following. (Any 5 out of 7) (1 mark ea Productivity Tapka stage Propagation Seed dormancy Plant growth regulator Grafting Fruit wer the following. (Any 5 out of 7) (1 mark e Enlist the types of Budding. Give the example of plant growth regulators. List out the different varieties of banana. Enlist the varieties of mango. Maturity indices of banana. Give the botanical name and family of papaya. Give the control measures for mango malformate te short notes. (Any5 out of 6) (2 marks each Explain desuckering in Banana. Importance and scope of Plantation crops. Explain propping in Banana. Selection of seedling for planting of coconut. Nursery management of coconut. Papain extraxtion.	ach) tion physiological disorder of mango.	(05)
A. Defi 1. 1 2. 7 3. 1 4. 5 5. 1 6. 6 7. 1 B. Ansy 1. 1 2. 6 3. 1 4. 1 5. 1 6. 6 7. 0 Q.3 Write 1. 1 2. 7 0 3. 1 4. 1 5. 1 6. 6 7. 1 8. Ansy 1. 1 2. 6 3. 1 4. 1 5. 1 6. 6 7. 1 8. Ansy 1. 1 5. 1 6. 6 7. 6 8. Ansy 1. 1 5. 1 6. 6 7. 6 8. Ansy 1. 1 5. 1 6. 6 7. 6 9. 7 9. 7	ne the following. (Any 5 out of 7) (1 mark ea Productivity Tapka stage Propagation Seed dormancy Plant growth regulator Grafting Fruit wer the following. (Any 5 out of 7) (1 mark e Enlist the types of Budding. Give the example of plant growth regulators. List out the different varieties of banana. Enlist the varieties of mango. Maturity indices of banana. Give the botanical name and family of papaya. Give the control measures for mango malformative te short notes. (Any5 out of 6) (2 marks each Explain desuckering in Banana. Importance and scope of Plantation crops. Explain propping in Banana. Selection of seedling for planting of coconut. Nursery management of coconut. Papain extraxtion. mpt any Three out of Four/Long Questions/	ach) tion physiological disorder of mango.) Example (5 marks each)	(05)
A. Defi 1. 1 2. 7 3. 1 4. 8 5. 1 6. 6 7. 1 B. Ansy 1. 1 2. 6 3. 1 4. 1 5. 1 6. 6 7. 6 Q.3 Write 1. 1 2. 1 3. 1 4. 8 5. 1 6. 6 7. 1 B. Ansy 1. 1 2. 6 3. 1 4. 8 5. 1 6. 6 7. 1 8. Ansy 1. 1 5. 1 6. 6 7. 6 9. 7 9. 7	ne the following. (Any 5 out of 7) (1 mark ea Productivity Tapka stage Propagation Seed dormancy Plant growth regulator Grafting Fruit wer the following. (Any 5 out of 7) (1 mark e Enlist the types of Budding. Give the example of plant growth regulators. List out the different varieties of banana. Enlist the varieties of mango. Maturity indices of banana. Give the botanical name and family of papaya. Give the botanical name and family of papaya. Give the control measures for mango malformation te short notes. (Any5 out of 6) (2 marks each Explain desuckering in Banana. Importance and scope of Plantation crops. Explain propping in Banana. Selection of seedling for planting of coconut. Nursery management of coconut. Papain extraxtion. mpt any Three out of Four/Long Questions/ Write down scope, export value and importance	ach) tion physiological disorder of mango.) Example (5 marks each)	(05)
A. Defi 1. 1 2. 7 3. 1 4. 8 5. 1 6. 0 7. 1 B. Ansy 1. 1 2. 0 3. 1 4. 1 5. 1 6. 0 7. 1 B. Ansy 1. 1 2. 0 7. 0 9. 0	ne the following. (Any 5 out of 7) (1 mark ea Productivity Tapka stage Propagation Seed dormancy Plant growth regulator Grafting Fruit wer the following. (Any 5 out of 7) (1 mark e Enlist the types of Budding. Give the example of plant growth regulators. List out the different varieties of banana. Enlist the varieties of mango. Maturity indices of banana. Give the botanical name and family of papaya. Give the control measures for mango malformative te short notes. (Any5 out of 6) (2 marks each Explain desuckering in Banana. Importance and scope of Plantation crops. Explain propping in Banana. Selection of seedling for planting of coconut. Nursery management of coconut. Papain extraxtion. mpt any Three out of Four/Long Questions/	ach) tion physiological disorder of mango.) Example (5 marks each)	(05)

4. Write down the different hybrids of mango and their parents.