## MAHARASHTRA AGRICULTURAL UNIVERSITIES EXAMINATION B SEMESTER END EXAMINATION

#### B.Sc. (Agri.)

2011-12 Academic Year : Term : II : IV (New) Production Technology of Spices, Semester Title Aromatics, Medicinal and Plantation : HORT 243 Course No. Crops : 2(1+1) Credits : 40 **Total Marks** 14.00 to 16.00 Time : Monday, 23.04.2012 Day & Date

Note: 1. Solve ANY EIGHT questions from SECTION "A".

2. All questions from SECTION "B" are compulsory.

3. All questions carry equal marks.

Draw neat diagrams wherever necessary.

#### SECTION "A"

- Q.1 Discuss on importance and scope for commercial cultivation of spices and plantation crops in India.
- Q.2 Write in detail cultivation of black pepper on the following points.
  - Soil and climate

- 2) Common method of propagation
- 3) Planting (Distance & Season)
- Harvesting and yield
- Q.3 Write in detail cultivation of coconut on the following points.
  - 1) Soil and climate

- 2) Selection of seedling for planting
- 3) Improved varieties (Four)
- 4) Harvesting and yield
- Q.4 Describe in short citronella cultivation on the following points.
  - 1) Soil and climate

2) Propagation

3) After cares

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A/P: Talsande, Tal: Hatakangle, Dist.: Kolhapur

- 4) Harvesting and yield
- Q.5 Write short notes on following.
  - 1) Harvesting and processing of turmeric.
  - 2) Harvesting and processing of cinnamon.
- Q.6 Complete the following table with correct information.

Sr. No.	Crop	Botanical Common method of propagation		Planting Yield / distance		
1.	Arecanut					
2.	Ginger					

- Q.7 Comment on following.
  - 1) Varieties of black pepper
  - Rejuvenation of cashew

#### SECTION "B"

(	9.8		Fill in the blanks:							
			1)	<ol> <li>The botanical name of Adulsa is</li> </ol>						
			<ol><li>Senna is propagated by</li></ol>							
			3) In Safed Musli, the plant part used for medicine is							
			4)	M	•					
			5)	T	he bright yellow	colour of turn	neric occurs due to			
(	2.9		W	rite	true or false:					
			1)	St	evia is a short da	ay plant.				
			2)	T	he main alkaloid	present in Op	ium poppy is morphine.			
			3)	Tl	he National Rese	arch Centre fo	or seed spices is located at Ajmer.			
			4)	Tl	he spacing of oil	palm is 2.7 m	x 2.7 m.			
			5)	V	etiver belongs to	family liliace	ae.			
(	2.1	0	Ma	itch	the pairs:					
_		_	,							
ulture			"A"				"B"			
Padmashree Dr. D. Y. Patil College of Agriculture	olhapur			1)	Fenugreek	a)	Camellia sinensis			
jo aga	Jist.: Ko	116 112	Š	2)	Stevia	b)	Strychnine			
l Coll	angle, [			3)	Tea	c)	Leguminosaae			
Y. Pati	A/P: Talsande, Tal : Hatakangle, Dist. : Kolhapur	Pin Code : 416 112	1	4)	Nuxvomica	d)	Konkan Sugandha			
r. D.	ande, Ta	压	3	5)	Nutmeg	e)	A sugar substitute for diabetic patients			
ree I	?: Talsa					<b>* * *</b>	<b>***</b>			
mash	¥									
Pad										

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#### MAHARASHTRA AGRICULTURAL UNIVERSITIES EXAMINATION BOARD, PUNE SEMESTER END EXAMINATION

#### B.Sc. (Agri.)

87			* *					
	Semester Course No. Credits Day & Date		: IV (New) : HORT 243		rm : II Academic Year : 2010-11			
				1	itle : Production Technology of Spices, Aromatics, Medicinal and Plantation			
			: 2(1+1)	-	Crops			
-			: Thursday, 28.04.2011	Ti	me: 14.00 to 16.00 Total Marks: 40			
<u> </u>	Note:		<ol> <li>Solve ANY EIGHT question</li> <li>All questions from SECTION</li> <li>All questions carry equal metal</li> <li>Draw neat diagrams where</li> </ol>	ON "l arks.	B" are compulsory.			
	· · · · · · · · · · · · · · · · · · ·		SECTION "A"					
	Q.1	Defin	e spices and write importance	of sp	ices and plantation crops in India.			
	Q.2	Write	in brief on Coconut on follow	ing p	points:			
		1)	Uses	2)	Propagation			
		3)	Varieties	ieties 4) Harvesting and yield				
Q.3 Explain in brief on Turmeric in respect of followings:				of followings:				
		1)	Soil and climate	2)	Propagation and seed rate			
	•	3)	Harvesting	4)	Processing			
	Q.4 Describe the package of practices of Cashew nut on following points:							
		1)	Soil and climate	2)	Propagation			
	1	3)	Harvesting	4)	Varieties			
	Q.5 Describe in brief cultivation of Black pepper on following aspects:							
		1)	Soil and climate	2)	Propagation			
2		3)	Harvesting and yield	4)	Processing			
Pin Code : 416 112	Q.6	Expla	in in brief on Cardamom on f	following points:				
n Code	75	1)	Soil and climate	2)	Intercultural operations			
ĭ		3)	Harvesting	4)	Processing			
	Q.7	Descr	ibe the cultivation of Medicina	al So	lanum in respect of:			
		1)	Propagation	2)	Varieties			
		3)	Harvesting	4)	Processing			
	Q.8	Write	in detail the cultivation of Ser	ına o	n the following points:			
		1)	Soil and climate	2)	Planting			
			ear rain ton raine ve	4.5	eran an ar a sa a			

Irrigation and interculture 4) Harvesting and yield

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Q.9	Write in brief on Lemon grass on following points:								
	1)	Uses	2)	Raising of nursery					
	3)	Planting	4)	Harvesting and yield					
Q.10	Write	short notes on (Any two):							
	1)	Training and pruning in cocoa	ì.						
	2)	Processing of cashewnut.							
	3)	Uses of Aloe and periwinkle.							
		SEC	CTI	ON "B"					
Q.11	Fill in	the blanks:							
	1)	For coconutwater, the nuts she	ould	be harvested at month of age.					
	2)	is said to be the qu	ieen	of spices.					
	3)	Panniyur No.1 is a variety of		spice crop.					
	4)	In clove the part is	s use	ed as spice in commerce.					
Q.12	Give a	my two uses of following crops	•						
	1)	Vetiver							
	2)	Aonla							
	3)	Adulsa							
	4)	Dawna							

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#### MAHARASHTRA AGRICULTURAL UNIVERSITIES EXAMINATION SEMESTER END EXAMINATION

#### B.Sc. (Agri.)

Semester

: IV(New)

Term

Academic Year

Course No.

**HORT 243** 

Title

Production Technology of Spices, Aromatics,

**Medicinal and Plantation Crops** 

Credits Day & Date 2(1+1)

Time: 14.00 to 16.00

**Total Marks** 

: 40

Note:

Solve ANY FIVE questions from SECTION "A".

- All questions from SECTION "B" are compulsory.
- All questions carry equal marks.

Wednesday, 21.4.2010

Draw neat diagrams wherever necessary.

#### SECTION "A"

- Q.1 Define spices and write importance of spices production in India.
- Q.2 Write the production technology of Cashewnut on following points.
  - Soil and climate
- Propagation and spacing

Varieties

- Manures and fertilizers
- Harvesting and yield
- Explain in brief the package of practices for Citronella with reference to the Q.3 following points.
  - Soil and climate
- Propagation
- Improved varieties
- Fertilizer requirement
- Harvesting and yield
- Q.4 Write short notes on (any two).
  - - Uses of Aloe and Periwinkle 2) Propagation and planting of Arecanut
  - Harvesting and yield of Black pepper
- Describe the cultivation of Turmeric on following points. Q.5
  - Climate

Propagation and seed rate

Varieties

- Manuring and fertilizers
- Harvesting and yield
- Write the production technology of Coconut on following points. Q.6
  - Soil and climate
- Propagation and spacing

Varieties

- Manuring and fertilization
- Harvesting and yield
- Describe the cultivation of Isabgol or Medicinal Solanum on following points. Q.7
  - Soil and climate
- Seed rate and sowing time
- Improved varieties
- Fertilizer requirement
- Harvesting and yield

(P.T.O.)

- Q.8 Write in short propagation and planting of following crops.
  - 1) Periwinkle
  - 2) Aloe
- Q.9 Write in short cultivation of arecanut on the following points.
  - 1) Soil and climate

2) Varieties

3) Harvesting

- 4) Processing and uses
- Q.10 Write in short medicinal uses of following crops.
  - 1) Stevia

- 2) Aonla
- 3) Medicinal solanum
- 4) Aloe

#### SECTION "B"

- Q.11 Define following terms.
  - 1) Spices

2) Plantation crops

3) Medicinal plants

4) Aromatic crops

- Q.12 State True or False.
  - 1) Botanical name of cardamom is Elettaria cardamomum.
  - 2) Acorus (Sweet flag) is propagated through rhizomes.
  - 3) On the basis of sex form, nutmeg is dioecious in nature.
  - 4) The steroid diosgenin is extracted from medicinal dioscorea.



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# MAHARASHTRA AGRICULTURAL UNIVERSITIES EXAMINATION BOARD, PUNE SEMESTER END EXAMINATION

#### B.Sc. (Agri.)

Semes Course Credit Day &	e No. : HORT 243 s : 2 (1+1)	: HORT 243  Title : Production Technology of Spic Aromatics, Medicinal and Plan Crops					
Note: 1. Solve ANY EIGHT questions from SECTION "A".  2. All questions from SECTION "B" are compulsory.  3. All questions carry equal marks.  4. Draw neat diagrams wherever necessary.							
43		SE	CTION	"A"			
Q.1	Discuss the importan	ce of medicinal	and pla	ntation crops in India.			
Q.2	Describe the cultivati	on of Black per	pper on	following points:			
	a) Propagation	5.5	b)	Training and pruning			
	c) Harvesting		d)	Processing			
Q.3	Describe the cultivati	on practices of	Citrone	ella grass.			
Q.4	Write short notes on (Any Two)  1) Propagation of Coconut  2) Processing of Cardamom  3) Uses of Aloe and Periwinkle						
Q.5	Give the symptoms Coffee.	and control me	asures	of important diseases of Coconut and			
Q.6	Write the package of	practices of Gir	nger on	following points:			
	a) Soil and climate	>	<b>b</b> )	Propagation and planting			
	c) Harvesting		d)	Curing			
Q.7	Describe the cultivati	on practices of	Isabgol				
Q.8	Comments on follow  1) Importance of Arc  2) Propagation of Arc  3) Pest and diseases of	matic Plants ecanut					
Q.9	Write the botanical n	ame and uses of	follow	ing plants.			
	Write the botanical name and uses of following plants.  1) Lemon grass  2) Davana  3) Seena  4) Belladona						
Q.10	Give the production climate, propagation,	technology of varieties and pr	f Medi ocessin	cinal Solanum considering soil and g.			

(P.T.O.)

#### SECTION "B"

Q.11			Į. 1 I	rm i	n the blanks.			
				1) Cl	IMAP is locat	ted at		
				2)	is	said to be the King of sp	pices.	
			*	3)	is	a dollar earning crop.	***	
re				4)	pa	rt of Vettiver grass is us	ed for extraction of e	ssential oil
cultur	.12	Matc	h the pairs.					
fAgr	Kolhapu				"A"		"B"	
lege o	Dist.:	12		(1)	Cinnamom	(a)	Myrsticaceae	
Y. Patil College of Agriculture	kangle,	: 416 11		(2)	Nutmeg	(b)	Kanchan	12
Y. Pat	al: Hata	Pin Code : 416 112	<i>t</i> )	(3)	Turmeric	. (c)	Zingiberaceae	
Padmashree Dr. D.	A/P: Talsande, Tal : Hatakangle, Dist. : Kolhapur	č	ė.	(4)	Aonla	(d)	Bark spice	ř
hree I	P. Talsa					(e)	Piperaceae	
dmasl	Ş							10
Pa					34	***	<b>***</b>	

# MAHARASHTRA AGRICULTURAL UNIVERSITIES EXAMINATION BOARD, PUNE SEMESTER END EXAMINATION

#### B.Sc. (Agri.)

Semest Course Credits	No. : HORT 243	Term: II Academic Year: 2013-14 Title: Production Technology of Spices, Aromatics, Medicinal and Plantation Crops
Day &	Date : Saturday, 26.04.2014	Time: 14.00 to 16.00 Total Marks: 4
	Note: 1. Solve ANY EIGHT ques	
		SECTION "A"
Q.1	Describe in brief the importance as	nd scope for spices cultivation in India.
Q.2	Describe in brief the cultivation of	
Tu	1) Climate and soil requirements	<ol><li>Propagation and planting</li></ol>
	3) Varieties	4) Harvesting and yield
Q.3	Describe the cultivation of Turmer	ric on the following points.
***	1) Propagation and planting	2) Varieties
	<ol><li>Harvesting and yield</li></ol>	4) Curing and polishing
Q.4	Write cultivation practices of Citro	onella grass on following points.
	1) Soil and climate	Propagation and planting
	3) Varieties	4) Harvesting and yield
Q.5	Describe the cultivation of Cashev	v nut on following points.
	1) Soil and climate	Propagation and planting
	3) Varieties	4) Harvesting and yield
Q.6	Discuss about cultivation of Diosc	
	1) Propagation	2) Planting
	3) Harvesting	4) Medicinal use
Q.7	Give information on following poi	ints pertaining to Coriander and Fenugreek.
	1) Varieties	2) Harvesting and yield
Q.8	Discuss the cultivation of Black pe	
	1) Soil and climate	2) Propagation planting
	3) Varieties	4) Harvesting and yield
Q.9	Explain in detail cultivation of Nu	tmeg on following points.
	1) Soil and climate	2) Propagation and planting method
	3) Varieties	4) Plant parts used
Q.10	Write Short notes on (Any Two)	
	1) Cultivation of lemongrass	
	2) Harvesting and processing of ca	ardamom
-	a) I I' i al assa of Conna	

3) Medicinal uses of Senna

Q.1	1 Fil	Fill in the blanks.							
	1)	Periwinkle belongs to family							
	2)	Comme	rcial vari	ety of o	il palm	is .			
	3)	Cumin i	s classifi	ed as		spice.			
	4)	Senna is	propaga	ted by_					
Q.1	2 Ma	tch the	pairs.			₩			
75.			"A"			"B"			
	1)	Coc	oa	£ 928	a)	Camellia sinensi:			
	2)	Bete	el vine		b)	Fruit			
	3)	Tea			c)	Chocolate			
+21	4)	Sold	mum kha	sianum	d)	Стеерет			
Pin Code : 416 112		N		Se.	<b>* *</b>	* * * * * *			

# MAHARASHTRA AGRICULTURAL UNIVERSITIES EXAMINATION BOARD, PUNE SEMESTER END EXAMINATION

B.Sc. (Agri.)

Semester Course No.	: IV (New) : HORT 243		: II Academic Year : 2014-15 : Production Technology of Spices, Aromatics, Medicinal and Plantation
Credits	: .2 (1+1)		Crops
Day & Date	: Thursday, 14.05.2015	Time	: 14.00 to 16.00 Total Marks : 40
Note:	<ol> <li>Solve ANY EIGHT ques</li> <li>All questions from SECT</li> <li>All questions carry equal</li> <li>Draw neat diagrams when</li> </ol>	ION "B" a marks.	re compulsory.
		30	1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1

#### SECTION "A"

- Q.1 Discuss the importance of plantation and medicinal crops.
- Q.2 Describe cultivation of oil plam on following parameters.
  - 1. Soil and Climate

2. Ablation

3. Pruning

- 4. Harvesting and Yield
- Q.3 Furnish information on cultivation of ginger on the following points.
  - 1. Soil and Climate

2. Propagation and Planting

3. Manures and Fertilizers

- 4. Harvesting and Yield
- Q.4 Write cultivation of coconut on following aspects.
  - 1. Soil and Climate

2. Varieties

3. Manures and Fertilizers

- 4. Harvesting and Yield
- Q.5 Describe cultivation of lemon grass on following points.
  - 1. Soil and Climate

2. Propagation and Planting

3. Varieties

- 4. Harvesting and Yield
- Q.6 Write short notes on (Any two).
  - 1. Processing of coffee
  - 2. Protection from sun and Training in black pepper
  - 3. Latex collection of opium poppy
- Q.7 Discuss cultivation of plantago ovate on the following points.
  - 1. Soil and Climate

- 2. Manuring and Irrigation
- 3. Harvesting and Yield
- 4. Major pest and disease with their control

measures

- Q.8 Furnish information on cultivation of cinnamon on the following aspects.
  - 1. Uses

2. Ecophysiological requirement

3. Varieties

- 4. Harvesting and Processing
- Q.9 Write short notes on.
  - 1. Gum tapping in guggul
- 2. Lowering down in betel vine

(P.T.O.)

- Q.10 Describe the cultivation of Aloe on following points.
  - 1) Soil and Climate

2. Propagation and Planting

3) Manures and Fertilizers

4. Harvesting and Yield

"B"

#### SECTION "B"

Q.11 Match the following pairs.

"A"

.

- 1) Hemanti

a) Areca catechu

2) Vincristine

b) Terminalia chebulla

3) VTLAH

c) Curcuma longa

4) Triphala

- d) Catharanthus roseus
- e) Pelargonikum graveolens

- Q.12 Do as directed.
  - 1. State the name of sweetener extracted from Stevia rebaudiana.
  - 2. Which parts of nutmeg fruits are commercially used.
  - 3. State names of different parts of cashew nut fruit.
  - 4. Where Directorate of Medicinal and Aromatic Plants Research is located?

