Semest							
Course							
Credits							
Day &	Date: Monday, 02.05.2016 Time: 09.00 to 11.00 Total Marks: 40						
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.							
SECTION "A"							
Q.1	What are different basis for classification of farming systems? Explain any one of them.						
Q.2 <sup>-</sup>	Explain advantages of Integrated Farming Systems.						
Q.3	Give classification of cropping system and explain monoculture.						
Q.4	What are the basic principles of organic farming?						
Q.5	Explain factors affecting ecological balance.						
Q.6	Write in short about the basic components of organic farming.						
Q.7	What are the various non-monetary inputs in agriculture?						
Q.8	Write short note on goals of sustainable agriculture.						
Q.9	What problems arise due to use of poor quality water for irrigation?						
Q.10	Write about concept of LEIA						
i.	SECTION "B"						
<b>Q.11</b>	Define the following terms.						
	1) Afforestation						
	2) Strip inter-cropping						
	3) Agrisiviculture						
	4) Allelopathy						
Q.12	Fill in the blanks						
	<ol> <li>Neochitina eichorniae weevil is used against</li> </ol>						
	<ol><li>Murrah is a important breed of buffalo.</li></ol>						
	3. Catla is mainly a feeder.						
	4. NWDB refers to						
	***						

Semes	ster : VI (New)	Term	:	II Academic Year : 2015-16			
Cours		Title	:	Organic and Rainfed Farming			
Credi	ts : 2 (1+1) & Date : Tuesday, 26.04.2016	Time		09.00 to 11.00 Total Marks : 40			
			CE.				
	Note: 1. Solve ANY EIGHT question 2. All questions from SECTIO						
	<ol> <li>All questions carry equal ma</li> <li>Draw neat diagrams wherever</li> </ol>		arı	v. LIBRALLY			
		CTION		Kolhar in Jac			
Q.1	What is IPM? Give its importance in						
Q.2	What is drought? What are the mech	-		_			
Q.2	describe any one of them.	iaitisitis	Pie	ants adopt to overcome drought and			
Q.3	Enlist the different organic sources of	f plant i	ıutı	rients.			
Q.4	Differentiate between organic farmin	g and c	onv	ventional farming.			
Q.5	Elaborate scope of organic farming. What are the constraints of organic farming?						
Q.6	Describe the recycling of crop residues in organic farming.						
Q.7	What is contingent crop planning? Suggest contingency crop plan under delayed monsoon.						
Q.8	What is water harvesting? Discuss in short the technique of water harvesting and recycling of runoff water.						
Q.9	Explain the term dry farming, dryland farming and rainfed farming. Write down the characteristics of rainfed farming.						
Q.10	Write short notes on (Any two).			**			
A11. THE	1) Green manuring						
	2) Antitranspirant						
	3) Mulching						
	SE	CTION	"B	3"			
Q.11	Fill in the blanks						
	1) NADEP is the method of						
	The father of organic farming is						
	Parthenium hysterophorus weed can be controlled by insect.      The highest feet in the insect.						
0.10	4) The biological fungicide is						
Q.12	Q.12 Give full form of the following.						
	1) IFOAM	,	PO				
	2) APEDA	4) V					
	<b>* * * *</b>	<b>* * *</b>	<b>*</b>	<b>* * *</b>			

## B.Sc. (Agri.)

Semester : VI (New) Term : II Academic Year :
Course No. : ASDS 364
Title : Sheep and Goat Production

Credits : 2 (1+1)

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

All questions from SECTION "B" are compulsory.

All questions carry equal marks.

Draw neat diagrams wherever necessary.

### SECTION "A"

- Q.1 Give the utility classification of goat breeds with two examples each. Describe in detail Osmanabadi breed.
- Q.2 Enlist the mating systems in sheep and goat followed in India. Explain in detail flock system.
- Q.3 What is wool? Give the systems of grading of wool and explain American system.
- Q.4 Give the importance of sheep and goat production in Indian economy.
- Q.5 What do you mean by culling? Discuss different reasons for culling in sheep and goat.
- Q.6 What are the different methods of slaughtering? Explain in brief the halal method of slaughtering.
- Q.7 Discuss the care and management of kid.
- Q.8 Enlist the different feeding systems of goat. Explain intensive feeding system.
- Q.9 Write short notes on (Any two).
  - 1) Flushing

- 2) Housing of sheep
- 3) Vaccination of sheep and goat
- 4) Care and management of rams

2015-16

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Total Marks :

Q.10 Classify the diseases of sheep and goat and give the control measures of ecto-parasites.

## SECTION "B"

- Q.11 Define the following terms.
  - 1) Lambing

2) Docking

Tupping

Dipping

- Q.12 State True or False.
  - Saanen goat breed is known as milk queen in the world.
  - Angora goat is famous for mohair production.
  - 3. Goat is called as weed destroyer.
  - 4. Hissadale breed of sheep is evolved in India.



B.Sc. (Agri.)

Semester : VI (New)

Course No. : BOT 367

Credits : 3 (2+1)

Day & Date : Monday, 25.04.2016

Term : II Academic Year : 2015-16

Title : Principles of Seed Technology

Time : 09.00 to 12.00

Total Marks : 80

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 Elaborate in brief the role of seed production organizations in India
- Q.2 What is seed certification? Give basic requirements of seed certification and explain the procedure of seed certification.
- Q.3 a) What are the causes of deterioration in seed quality of self and cross pollinated crops
  - b) What are the precaution needed to avoid deterioration at different stages of seed multiplication and maintenance of genetic purity?
- Q.4 Define Seed Quality. What are the characteristics of good Seed? Explain classes of improved seed.
- Q.5 Discuss main principles of seed processing and enlist various steps in seed processing. What are the advantages of seed treatment? Discuss on kinds of seed treatment.
- Q.6 Describe in brief about maintenance of nucleus and breeder seed of inbred line.
- Q.7 Define seed marketing. Describe marketing structure with suitable diagram illustrating central marketing cell.
- Q.8 Explain in brief various factors to be considered in planning and designing a seed processing plant.
- Q.9 Enlist types of storage and principles of storage. Explain in brief factors affecting seed longevity in storage.
- Q.10 Write short notes on (Any two)
  - New seed Policy
- 2) The Indian Seeds Act
- Role of seed technology

#### SECTION "B"

- Q.11 Define the following terms
  - 1) Seed viability 2) Seed Vigour
- 3) Seed Processing
- 4) Nucleus seed

JBRA!

Koltar.

- 5) Isolation
- 6) Inert matter
- Variety
- Seed Testing

- Q.12 Give full forms of the following
  - 1) ICIA.
- .2) AOSCA
- CSTL
- 4) PPVFRA

- 5) SVRC
- 6) CSCB
- 7) SSCB
- CVT



Semeste						
Course 1	Title : Agri-Business Management					
Credits	: 2(1+1)					
Day & I	Date: Wednesday, 27.04.2016					
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.						
	SECTION "A"					
Q.1 1	Define Agri-Business and explain different sectors of Agri-Business.					
Q.2	Define planning? State and explain the steps in planning process.					
Q.3	What is Management? Discuss the importance of good management.					
Q.4	Explain Mallows theory hierarchy of motivation.					
Q.5	State the types of agro based industries? Explain the phases in project cycle.					
Q.6	What do you mean by marketing? Discuss the 4 P's of marketing.					
Q.7	Write in short about market segmentation and methods of market segmentation.					
Q.8	Explain profit and loss statement.					
Q.9	Give the difference between marketing and selling.					
Q.10	What is project? Describe the methods of project appraisal.					
	SECTION "B"					
Q.11	Define the following terms.					
e <del>e</del>	1) Directing 2) Staffing					
	3) Organizing 4) Controlling					
Q.12	Fill in the blanks					
	1) Liability in case of partnership is					
	<ol> <li>Majority of sugar factories are working onbasis in Maharashtra.</li> </ol>					
	<ol> <li>form of business organization is known as corporation.</li> </ol>					
	4) Agricultural marketing involves the movement of produce from producer to					
<b>***</b>						

Seme	ster : VI (New) Term : II Academic Year : 2015-16					
Cours	se No. : ENGG 364 Title : Protected Cultivation and Post-harvest					
Credi	its : 2(1+1) Technology					
Day &	& Date : Saturday, 30.04.2016					
	Note: 1. Solve ANY EIGHT questions from SECTION "A".					
	2. All questions from SECTION "B" are compulsory.  3. All questions carry equal marks.					
	1 Draw nest discreme wherever necessary					
	SECTION "A"  SECTION "A"  SECTION "A"					
Q.1	Define green house. Explain the green house effect.					
Q.2	Determine the total energy required to raise the dry clay soil temperature from $40^{\circ}$ C to $82^{\circ}$ C in a effective area of 0.2 ha upto a depth of 0.6 m for 30 min. Assume density of root media = $1458$ kg/m <sup>3</sup> , specific heat (Cp) = $880$ J/kg <sup>0</sup> C.					
Q.3	Classify the green houses on various basis and explain in detail about saw tooth type					
Q.4	Enlist various irrigation methods used in green houses and explain with figure the Perimeter Watering					
Q.5	Enlist the various cooling systems used in green houses and explain high and low pressure mist system					
Q.6	Explain in detail the Baffle dryer with neat diagram.					
Q.7	Classify the different types of food grain storage structures. Explain in detail about the Bunker storage structure.					
Q.8	Explain the Magnetic Separator with neat sketch.					
Q.9	Classify the different machinery used for size reduction and explain Jaw crusher with neat figure.					
Q.10	Explain in detail about grading of vegetables.					
	SECTION "B"					
Q.11	Fill in the blanks.					
7.	1) The percentage of carbon dioxide in the atmosphere is approximately					
	<ol> <li>The visible spectrum of light useful in photosynthesis, have wave length ranging from nm.</li> </ol>					
	<ol> <li>In mill, the grains are reduced by shear force.</li> </ol>					
1	4) Roller grader is suitable for fruits.					
Q.12	State True or False					
	1) Ultra violet light is available in the short wave length of less than 400 nm.					
	2) Trees should be 40.5 m away from the greenhouse, where snow is expected.					
	3) In ball mill the centrifugal force is important in size reduction.					
	4) The holding capacity of flat bed type dryer per batch ranges from 1-2 tonnes.					
	<b>* * * * * * * * * *</b>					

Semester		VI (New)	Term	: П	Acade	mic Year	: 2015-10
Course N		ENTO 364	Title	: Intro	ductory Ner	natology	
Credits	;	2 (1+1)				Total M	Marks : 40
Day & D	ate	: Wednesday, 04.05.2016	Time	: 09.00	to 11.00	1 Otal N	iarns . To
No		<ol> <li>Solve ANY EIGHT question</li> <li>All questions from SECTIO</li> <li>All questions carry equal ma</li> <li>Draw neat diagrams wherever</li> </ol>	N "B" ar rks.	e compu	N "A". Isory.	alsan	te Same
		SE	CTION "	'A"		C LIBRA	
Q.1 I	Define	nematode and explain biology	y of nema	atode.		100	/
		fy nematodes based on the place				/feeding v	ith example
Q.3	Enlist	general characteristics of plant	t parasition	e nemat	odes		. %
	of domage caused by plant parasitic nematodes						
Q.5	Expla	in in detail the digestive system	n of nem	atodes.	31	0 4 80	
-	Q.6 Enlist the different methods of nematode management and explain the physical method of nematode management.						
Q.7	Explain the role of nematodes as a vector in transmission of plant diseases.						
Q.8		a short note on (Any two)					
	2)	Historical events in nematolog Treatment types of nematicide Excretory system of nematode	es e			V	3 
	Expla Heter	odera.	sympton				chus and
0.10	Expla	ain in brief the economic impo	rtance of	nemato	des in agric	ulture.	
<b>Q</b> , 333			ECTION		S275		
Q.11	Do a	s directed					
	a)	Define agricultural nematolo	gy.		1200 R20		
	b)	Name the reference book on	nematolo	ogy alon	ig with auth	or.	
	c)	The largest plant parasitic ne	matode i	s	<del></del> ;		
	d)	The male nematode with two	testes is	called		·	
Q.12	Mate	ch the pairs					
		'A'	*		'В'		re-
	1)	Root golling in crop	a)		of America		ogy
	2)	Hot water treatment	b)		nchulus ren		
\$I	3)	Kidney shaped females	c)	Physic	al control m	nethod of r	ematode
	4)	N.A. Cobb	d)	Meloid	dogyne		
	5	<b>*</b>	<b>♦                                    </b>	<b>&gt;</b>	<b>&gt; &lt;</b>		

### B.Sc. (Agri.)

Semester	:	VI (New)	Term	:	II Acade	mic Year : 2015-16
Course No.	:	EXTN 364	Title	:	Entrepreneurship	Development and
Credits : 2 (1+1)				Communication	Skills	
Day & Date	:	Friday, 29.04.2016	Time	:	09.00 to 11.00	Total Marks : 40

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.

### SECTION "A"

- Q.1 Define project. State the aspects of project formulation?
- Q.2 State and explain the incentives for promotion of small scale industries provided by the government.
- Q.3 What is Entrepreneurship Development Programmes? Explain its functions.
- Q.4 What do you understand by SWOT analysis? Explain in brief.
- Q.5 Define entrepreneur. Explain characteristics of entrepreneur?
- Q.6 Explain in brief importance of monitoring and follow-up of entrepreneurship development programmes.
- Q.7 The stock of a product is exhausted with the retailer. Write an inquiry letter to the whole sale dealer about availability of the product.
- Q.8 What is entrepreneurial behaviour? Explain the factors affecting entrepreneurial behaviour.
- Q.9 Define advertisement. Explain the type of advertisement and give the specification of good advertisement.
- Q.10 Write short notes on (Any two).
  - Role of entrepreneur
  - Market Survey
  - Identifying potential entrepreneur.

### SECTION "B"

- Q.11 Give full forms of the following:
  - 1) EDPs

2) NABARD

SEZ

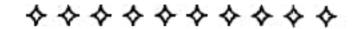
4) SMEs

- Q.12 Define the following terms:
  - 1) Monitoring

2) Motivation

3) Feedback

4) Planning



B.Sc. (Agri.)

Semester : VI (New)

Course No. : HORT 364

Credits : 2 (1+1)

Day & Date : Thursday, 28.04.2016

Term : II Academic Year : 2015-16

Title : Post-Harvest Management and Value Addition of Fruits and Vegetables

Time : 09.00 to 11.00

Total Marks : 40

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

All questions from SECTION "B" are compulsory.

All questions carry equal marks.

Draw neat diagrams wherever necessary.

### SECTION "A"

IBRA!

- Q.1 Enlist the modern methods of storage of fruits and vegetables. Write in brief about controlled atmospheric storage.
- Q.2 What do you mean by horticultural maturity? How to judge the maturity of custard apple and onion?
- Q.3 Define ripening. Describe in brief the biochemical changes which occur during ripening of fruits.
- Q.4 Enlist methods of preservation of fruits and vegetables. Describe preservation by chemical preservatives.
- Q.5 State the different pre-harvest factors affecting post harvest quality of fruits and vegetables. Explain in brief about environmental factors.
- Q.6 What is regulation of ripening? Discuss in brief advantages of accelerated ripening and chemicals used to accelerate ripening.
- Q.7 Write short notes on (Any two).
  - 1) Freeze drying.
  - Cushioning in packaging of fruits and vegetables.
  - 3) Modified atmospheric packaging
- Q.8 State different methods of pre-cooling and discuss in brief about the vacuum cooling method.
- Q.9 Enlist the factors responsible for spoilage of food. Describe in brief enzymatic spoilage.
- Q.10 Explain in brief the points to be considered while establishing the fruit and vegetable processing unit.

### SECTION "B"

- Q.11 Do as directed
  - Expand the acronym CIPHET.
  - 2) How sugar act as a preservative?
  - 3) State the object of blanching.
  - 4) Why KMS is not used in naturally coloured juices?
- Q.12 Define the following terms.
  - Dehydration

Springer

Pre-packaging.

Climacteric period

