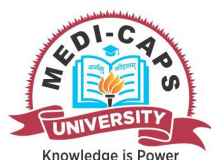


Enrollment No.....



Faculty of Agriculture

End Sem (Even) Examination May-2019

AG3CO01 Fundamentals of Horticulture

Programme: B.Sc. (Ag.) Branch/Specialisation: Agriculture

Duration: 3 Hrs.

Maximum Marks: 50

Note: All questions are compulsory. Internal choices, if any, are indicated. Answers of Q.1 (MCQs) should be written in full instead of only a, b, c or d.

- Q.1 i. Which state has highest productivity under fruit crops **1**
 (a) Maharashtra (b) U.P.
 (c) Karnataka (d) Kerala
- ii. Chromosome number of grape and mango respectively are **1**
 (a) 40 – 38 (b) 38 – 42 (c) 36 – 40 (d) 86 – 42
- iii. In arid zones mango is grafted by **1**
 (a) Soft wood grafting (b) Epicotyls grafting
 (c) Veneer grafting (d) None of these
- iv. Amrapalli variety of mango is generally planted by **1**
 (a) Hedge row system (b) Square system
 (c) Triangular system (d) Hexagonal system
- v. Most commonly used vegetative propagation method in rose **1**
 (a) Loyering (b) Grafting (c) Budding (d) Tissue Culture
- vi. High density planting was first established in which fruit tree? **1**
 (a) Mango (b) Guava (c) Apple (d) Banana
- vii. Which compounds that positively influence cell enlargement? **1**
 (a) ABA (b) Auxins (c) Ethylene (d) Gibberellins
- viii. Jhoomka in mango is cussed due to – **1**
 (a) Improper pollination and fertilization
 (b) Water scarcity
 (c) High temperature
 (d) None of these
- ix. In which of the followings system the water falls drop by drop just **1**
 at the position of the roots
 (a) Sprinkler system (b) Sip system
 (c) Drip System (d) All of these

- x. Which irrigation method is most suitable for lawns? **1**
 (a) Furrow (b) Drip (c) Basin (d) Sprinkler

- Q.2 i. Write the names of branches of horticulture. **1**
 ii. Write the significance of fruit production in India. **3**
 iii. Write the botanical name and family of fruit edible portion, **4**
 propagation technique of pear, strawberry, pomegranate and
 guava.

- OR iv. Write the scope of floriculture and vegetable production. **4**

- Q.3 i. What is Dormancy? **1**
 ii. Explain grafting in mango. **3**
 iii. Explain soil and climatic requirement for fruit crops. **4**

- OR iv. Write the propagation of fruit plant by air layering with diagram **4**
 and explain it.

- Q.4 i. Define unfruit fullness. **1**
 ii. Discuss the different methods of training in fruit crops. **3**
 iii. Classify planting system Describe anyone system with diagram. **4**

- OR iv. Prepare a layout plan for 8ha commercial orchard near in district. **4**

- Q.5 i. Define parthenocarpy. **1**
 ii. Write about products developed from medicinal and aromatic **3**
 plants.

- iii. Describe plant growth regulators. **4**

- OR iv. Write any four different uses of hormones. **4**

- Q.6 i. Define drip irrigation. **1**
 ii. Explain importance of manures application in horticultural crops. **3**
 iii. Describe the different methods of irrigation in fruit crops. **4**

- OR iv. Describe different methods of application of manures and **4**
 fertilizers to horticultural crops.

P.T.O.

Marking Scheme
AG3CO01 Fundamentals of Horticulture

Q.1	i.	Which state has highest productivity under fruit crops (a) Maharashtra	1
	ii.	Chromosome number of grape and mango respectively are (c) 36 – 40 (d) 86 – 42	1
	iii.	In arid zones mango is grafted by (c) Veneer grafting	1
	iv.	Amrapalli variety of mango is generally planted by (b) Square system	1
	v.	Most commonly used vegetative propagation method in rose (c) Budding	1
	vi.	High density planting was first established in which fruit tree? (c) Apple	1
	vii.	Which compounds that positively influence cell enlargement? (b) Auxins	1
	viii.	Jhoomka in mango is caused due to – (c) High temperature	1
	ix.	In which of the followings system the water falls drop by drop just at the position of the roots (c) Drip System	1
	x.	Which irrigation method is most suitable for lawns? (d) Sprinkler	1
Q.2	i.	Names of branches of horticulture.	1
	ii.	Significance of fruit production in India.	3
	iii.	Botanical name and family of fruit edible portion, propagation technique 1 mark for each (1 mark * 4)	4
OR	iv.	Scope of floriculture Scope of vegetable production.	2 marks 2 marks
			4
Q.3	i.	Dormancy	1
	ii.	Grafting in mango. Explanation Diagram	3 2 marks 1 mark
	iii.	Soil requirement for fruit crops.	2 marks
		Climatic requirement for fruit crops.	2 marks
			4

OR	iv.	Propagation of fruit plant by air layering with diagram and explain it.	4
Q.4	i.	Unfruit fullness.	1
	ii.	Methods of training in fruit crops.	3
	iii.	Classify planting system Anyone system with diagram.	2.5 marks 1.5 marks
OR	iv.	Prepare a layout plan for 8ha commercial orchard near in district.	4
Q.5	i.	Define parthenocarpy.	1
	ii.	Products developed from medicinal and aromatic plants.	3
	iii.	Plant growth regulators.	4
OR	iv.	Any four different uses of hormones. 1 mark for each (1 mark * 4)	4
Q.6	i.	Drip irrigation.	1
	ii.	Importance of manures application in horticultural crops.	3
	iii.	Methods of irrigation in fruit crops. Explanation Diagram	4 2 marks 2 marks
OR	iv.	Methods of application of manures and fertilizers to horticultural crops.	4
