

Total No. of Questions: 6

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Enrollment No.....



Faculty of Agriculture
End Sem Examination Dec-2023
AG3CO16

Crop Production Technology -I (Kharif Crops)

Programme: B.Sc. (Hons.) 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. Assume suitable data if necessary. Notations and symbols have their usual meaning.

- Q.1 i. Photo-periodically, rice is a type of _____ plant. **1**
(a) Long Day (b) Short Day
(c) Day Neutral (d) Intermediate
- ii. Sorghum is primarily a native of- **1**
(a) India (b) Africa (c) Europe (d) Central Asia
- iii. UPAS – 120 is a variety of- **1**
(a) Wheat (b) Pigeonpea (c) Barley (d) Urd
- iv. Black gram is originated in- **1**
(a) India (b) Tropical America
(c) China (d) Indonesia
- v. Family of Soybean- **1**
(a) Leguminaceae (b) Graminae
(c) Compositae (d) Linaceae
- vi. The botanical name of groundnut is- **1**
(a) Cicer Arietinum (b) Glycine Max
(c) Arachis Hypogea (d) Lens Esculentum
- vii. Delinting of cotton seed may be done with **1**
(a) Sulphuric acid (b) Citric acid
(c) Nitric acid (d) Hydrochloric acid
- viii. The ideal stage of harvest of jute for fibre purpose is **1**
(a) One month old (b) Flowering
(c) Small pod stage (d) Mature pod stage

[2]

	ix.	The scientific name of Napier grass is (a) Pennisetum purpureum (b) Penicum maximum (c) Sorghum helpense (d) Trifolium alexandrinum	1
	x.	Seed rate of fodder sorghum is _____. (a) 10-20 kg/ha. (b) 20-30 kg/ha. (c) 40-50 kg/ha. (d) 60-70 kg/ha.	1
Q.2	i.	Write the botanical name of Pearlmillet.	1
	ii.	Write the economic importance of cereal crops.	2
	iii.	Write the cultivation practice of Rice crop.	5
OR	iv.	Write detail about Maize crop in following point- (a) Botanical name, family and origin (b) Soil and climate (c) Seed rate and sowing method (d) Important varieties (e) Important disease and pest	5
Q.3	i.	Write the botanical name of Urd bean.	1
	ii.	Write the economic importance of pulses crops.	3
	iii.	Write detail about Pigeonpea crop in following point- (a) Botanical name, family and origin (b) Soil and climate (c) Seed rate and sowing method (d) Important varieties	4
OR	iv.	Write detail about Greengram crop in following point- (a) Botanical name, family and origin (b) Soil and climate (c) Important varieties (d) Important disease and pest	4
Q.4	i.	What is Aflatoxin.	2
	ii.	Write detail about Groundnut crop in following point- (a) Botanical name, family and origin (b) Soil, climate & cultural practices (c) Seed rate and sowing method (d) Important varieties	6

[3]

		(e) Important disease and pest (f) Yield	
OR	iii.	Write detail about Soybean crop in following point- (a) Botanical name, family and origin (b) Soil, climate & cultural practices (c) Seed rate and sowing method (d) Important varieties (e) Important disease and pest (f) Yield	6
Q.5	i.	Write the economic importance of fibre crops.	2
	ii.	Write the difference between american cotton and desi cotton.	2
	iii.	Write detail about Cotton crop in following point- (a) Soil, climate & cultural practices (b) Seed rate and sowing method (c) Important varieties (d) Important disease and pest	4
OR	iv.	Write detail about Jute crop in following point- (a) Soil, climate & cultural practices (b) Seed rate and sowing method (c) Important varieties (d) Important disease and pest	4
Q.6		Attempt any two:	
	i.	Write the cultivation practice of Napier crop.	4
	ii.	Write the cultivation practice of fodder Sorghum crop.	4
	iii.	Write the cultivation practice of Cowpea.	4

Marking Scheme
Crop Production Technology -I (Kharif Crops) (T) -
AG3CO16 (T)

Q.1	i)	(b) Short Day		1
	ii)	(b) Africa		1
	iii)	(b) Pigeonpea		1
	iv)	(a) India		1
	v)	(a) Leguminaceae		1
	vi)	(c) Arachis Hypogea		1
	vii)	(a) Sulphuric acid		1
	viii)	(c) Small pod stage		1
	ix)	(a) Pennisetum Purpureum		1
	x)	(c) 40-50 kg/ha.		1
Q.2	i.	Botanical name of Pearlmillet (As per explanation)		1
	ii.	Economic importance of cereal crops	2 Marks	2
	iii.	Write the cultivation practice of Rice crop	5 Marks	5
OR	iv.	Write detail about Maize crop in following point --		5
		(a) Botanical name, Family and Origin	1 Marks	
		(b) Soil and Climate	1 Marks	
		(c) Seed rate and Sowing Method	1 Marks	
		(d) Important Varieties	1 Marks	
		(e) Important Disease and Pest	1 Marks	

Q.3	i.	Write the botanical name of Urd bean	1 Marks	1
	ii.	Write the economic importance of pulses crops	3 Marks	3
	iii.	Write detail about Pigeonpea crop in following point --		4
		(a) Botanical name, Family and Origin	1 Marks	
OR		(b) Soil and Climate	1 Marks	
		(c) Seed rate and Sowing Method	1 Marks	
		(d) Important Varieties	1 Marks	
	iv.	Write detail about Greengram crop in following point --		4
		(a) Botanical name, Family and Origin	1 Marks	
		(b) Soil and Climate	1 Marks	
		(c) Important Varieties	1 Marks	
		(d) Important Disease and Pest	1 Marks	
Q.4	i.	What is Aflatoxin.	2 Marks	2
	ii.	Write detail about Groundnut crop in following point --		6
OR		(a) Botanical name, Family and Origin	1 Marks	
		(b) Soil, Climate & Cultural Practices	1 Marks	
		(c) Seed rate and Sowing Method	1 Marks	
		(d) Important Varieties	1 Marks	
		(e) Important Disease and Pest	1 Marks	
		(f) Yield	1 Marks	
	iii.	Write detail about Soybean crop in following point --		6
		(a) Botanical name, Family and Origin	1 Marks	
		(b) Soil, Climate & Cultural Practices	1 Marks	
		(c) Seed rate and Sowing Method	1 Marks	
Q.5		(d) Important Varieties	1 Marks	
		(e) Important Disease and Pest	1 Marks	
		(f) Yield	1 Marks	
	i.	Economic importance of fibre crops	2 Marks	2
	ii.	Difference between American cotton and Desi cotton	2 Marks	2
	iii.	Write detail about Cotton crop in following point --		4

[2]

[3]

	(a) Soil, Climate & Cultural Practices	1 Marks	
	(b) Seed rate and Sowing Method	1 Marks	
	(c) Important Varieties	1 Marks	
	(d) Important Disease and Pest	1 Marks	
OR	iv. Write detail about Jute crop in following point --		4
	(a) Soil, Climate & Cultural Practices	1 Marks	
	(b) Seed rate and Sowing Method	1 Marks	
	(c) Important Varieties	1 Marks	
	(d) Important Disease and Pest	1 Marks	

Q.6	Attempt any two:		
i.	Cultivation practice of Napier crop	4 Marks	4
ii.	Cultivation practice of fodder Sorghum crop	4 Marks	4
iii.	Cultivation practice of Cowpea	4 Marks	4
