

- Q.6 Attempt any two:
- Write the importance of forage crops of MP and India. **4** 3 5 3
 - Write the cultivation practice of Napier grass under following points: **4** 3 5 3
 - Botanical name and origin place
 - Seed rate and planting method
 - Fertilizer requirements
 - Harvesting and yield
 - Write the cultivation practice of Cluster bean under following points: **4** 3 5 3
 - Botanical name and family
 - Seed rate and planting method
 - Fertilizer requirements
 - Harvesting and yield

Total No. of Questions: 6

Total No. of Printed Pages:4

Enrollment No.....



Faculty of Agriculture
End Sem Examination Dec 2024
AG3CO16

Crop Production Technology -I (Kharif Crops)

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

Duration: 3 Hrs.

Maximum Marks: 60

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.

		Marks	BL	PO	CO	PSO
Q.1	i. Rice is a type of plant	1	1	1	1	
	(a) Long day (b) Short day					
	(c) Day neutral (d) Intermediate					
	ii. Sorghum is primarily a native of	1	1	1	1	
	(a) India (b) Africa					
	(c) Europe (d) Central Asia					
	iii. UPAS – 120 is a variety of-	1	1	2	1	
	(a) Wheat (b) Pigeonpea					
	(c) Barley (d) Urd					
	iv. Black gram is originated in-	1	1	2	1	
	(a) India (b) Tropical America					
	(c) China (d) Indonesia					
	v. The spacing for bunchy type of groundnut is-	1	1	3	1	
	(a) 30x10 cm (b) 45x10 cm					
	(c) 50x10 cm (d) 22x10 cm					
	vi. Seed rate of kharif soybean is-	1	1	3	1	
	(a) 70-80 kg/ha (b) 50-55 kg/ha					
	(c) 80-90 kg/ha (d) 85-90 kg/ha					
	vii. Cotton belongs to the family-	1	1	4	1	
	(a) Compositae (b) Malvaceae					
	(c) Cruciferae (d) Linaceae					

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	viii.	Leading jute producing state in India is-	1	1	4	1
		(a) Assam (b) West Bengal				
		(c) Uttar Pradesh (d) Orissa				
	ix.	Which fodder crop use as vegetable crop also?	1	1	5	1
		(a) Cow pea (b) Napier cgrass				
		(c) Cluster bean (d) Sorghum				
	x.	Seed rate of fodder sorghum is	1	1	5	1
		(a) 10-20 kg/ha. (b) 20-30 kg/ha.				
		(c) 40-50 kg/ha. (d) 60-70 kg/ha.				
Q.2	i.	Write down the botanical name and family of Maize.	1	1	1	1
	ii.	Write about the inflorescence and fruit type of sorghum crop.	2	2	1	1
	iii.	What is SRI method for rice cultivation?	5	2	1	1
OR	iv.	Write the cultivation of finger millet under following points:	5	3	1	2
		(a) Botanical name, family				
		(b) Soil and climate				
		(c) Seed rate and sowing method				
		(d) Sowing method				
		(d) Important varieties				
Q.3	i.	Write down place of origin and chromosome number of pigeon pea.	1	1	2	1
	ii.	Write the economic importance of pulse crops.	3	3	2	2
	iii.	Write down the package of practices of Urdbean under following points:	4	3	2	2
		(a) Botanical name, family				
		(b) Seed rate				
		(c) Important varieties				
		(d) Irrigation				
OR	iv.	Write detail about Pigeon pea crop in following heads:	4	3	2	2
		(a) Botanical name, origin				
		(b) Soil and climate				

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		(c) Fertilizer requirements				
		(d) Yield				
Q.4	i.	Write the botanical name and origin place of Groundnut crop.	2	1	3	1
	ii.	Write the cultivation of Soybean under following points	6	3	3	2
		(a) Botanical name, family				
		(b) Soil and temperature				
		(c) Seed rate and sowing method				
		(d) Important varieties				
		(e) Important disease and pest				
		(f) Harvesting and yield				
OR	iii.	Write detail about Groundnut crop in following point:	6	3	3	2
		(a) Origin and chromosome number				
		(b) Soil, climate & cultural practices				
		(c) Seed rate and sowing method				
		(d) Important varieties				
		(e) Irrigation				
		(f) Yield				
Q.5	i.	Write the economic importance of fibre crops.	2	3	4	2
	ii.	Write the botanical name and family of cotton and jute crop.	2	1	4	2
	iii.	Write detail about Cotton crop in following point:	4	3	4	3
		(a) Soil, climate				
		(b) Seed rate and sowing method				
		(c) Important varieties				
		(d) Irrigation				
OR	iv.	Write detail about Jute crop in following point:	4	3	4	3
		(a) Soil, climate				
		(b) Seed rate and sowing method				
		(c) Fertilizer requirements				
		(d) Yield				

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

Q.1	i)	(b) Short Day		1
	ii)	(b) Africa		1
	iii)	(b) Pigeonpea		1
	iv)	(a) India		1
	v)	(b) 45x10 cm		1
	vi)	(a) 70-80 kg/ha		1
	vii)	(b) Malvaceae		1
	viii)	(b) West Bengal		1
	ix)	(a) Cow pea		1
	x)	(c) 40-50 kg/ha		1
Q.2	i.	Write down botanical name and family of Maize.	1 Marks	1
	ii.	Write the inflorescence and fruit type of sorghum crop.	2 Marks	2
	iii.	What is SRI method for rice cultivation?	5 Marks	5
OR	iv.	Write the cultivation of finger millet under following points		5
		(a) Botanical name, Family	1 Marks	
		(b) Soil and Climate	1 Marks	
		(c) Seed rate and Sowing Method	1 Marks	
		(d) Sowing Method	1 Marks	
		(e) Important Varieties	1 Marks	
Q.3	i.	Write down origin place and chromosome number of Pigeon pea.	1 Marks	1
	ii.	Write the economic importance of pulse crops.	3 Marks	3
	iii.	Write down the package of practices of Urdbean under following points--		4
OR		(a) Botanical name, Family	1 Marks	
		(b) Seed rate	1 Marks	
		(c) Important Varieties	1 Marks	
		(d) Irrigation	1 Marks	
	iv.	Write detail about Pigeon pea crop in following point --		4
		(a) Botanical name ,Origin	1 Marks	
		(b) Soil and Climate	1 Marks	
		(c) Fertilizer requirements	1 Marks	
		(d) Yield	1 Marks	

Q.4	i.	Write the botanical name and origin place of Groundnut crop.		2
			2 Marks	
	ii.	Write the cultivation of Soybean under following points		6
		(a) Botanical name, Family	1 Marks	
		(b) Percentage of oil and protein	1 Marks	
		(c) Seed rate and Sowing Method	1 Marks	
		(d) Important Varieties	1 Marks	
		(e) Important Disease and Pest	1 Marks	
		(f) Harvesting and yield	1 Marks	
OR	iii.	Write detail about Groundnut crop in following point --		6
		(a) Origin and chromosome no	1 Marks	
		(b) Soil, Climate & Cultural Practices	1 Marks	
		(c) Percentage of oil and protein	1 Marks	
		(d) Important Varieties	1 Marks	
		(e) Irrigation	1 Marks	
		(f) Yield	1 Marks	
Q.5	i.	Write the economic importance of fibre crops.	2 Marks	2
	ii.	Write the botanical name	1 Marks	2
		Family of cotton and jute crop.	1 Marks	
	iii.	Write detail about Cotton crop in following point --		4
		(a) Soil, Climate	1 Marks	
		(b) Seed rate and Sowing Method	1 Marks	
		(c) Important Varieties	1 Marks	
		(d) Irrigation	1 Marks	
OR	iv.	Write detail about Jute crop in following point --		4
		(a) Soil, Climate	1 Marks	
		(b) Seed rate and Sowing Method	1 Marks	
		(c) Fertilizer requirements	1 Marks	
		(d) Yield	1 Marks	
Q.6		Attempt any two:		
	i.	Write the importance of forage crops of MP and India.	4 Marks	4
	ii.	Write the cultivation practice of Napier grass under following points		4
		(a) Botanical name and origin place	1 Marks	
		(b) Seed rate and Planting Method	1 Marks	

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- (c) Fertilizer requirements 1 Marks
- (d) Harvesting and yield 1 Marks

iii. Write the cultivation practice of Cluster bean under following points 4

- (a) Botanical name and family 1 Marks
- (b) Seed rate and Planting Method 1 Marks
- (c) Fertilizer requirements 1 Marks
- (d) Harvesting and yield 1 Marks

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