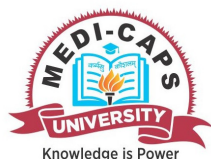


Enrollment No.....



Faculty of Agriculture

End Sem (Even) Examination May-2022

AG3CO25 Crop Production Technology-II (Rabi 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.

- Q.1 i. Common wheat is _____. **1**
 (a) Triticum durum (b) Triticum dicoccum
 (c) Triticum aestivum (d) None of these
- ii. Salt tolerant variety of barley **1**
 (a) Amber (b) Neelam (c) RD137 (d) None of these
- iii. The recommended seed rate for chick pea is _____. **1**
 (a) 8-10 kg/ha (b) 15-20 kg/ha
 (c) 75-100 kg/ha (d) 150-200 kg/ha
- iv. Pea should be treated with rhizobium inoculation of _____. **1**
 (a) R. Japonicum (b) R. leguminosarum
 (c) R. glycine (d) None of these
- v. Fertilizer dose for irrigated rapeseed-mustard is _____ kg NPK /ha. **1**
 (a) 60-40-40 (b) 30-20-20 (c) 40-20-20 (d) 20-20-20
- vi. Oil content of sunflower is _____. **1**
 (a) 30-32 % (b) 36-38 % (c) 20-22 % (d) 40-42 %
- vii. The centre of origin of Lemon grass is _____. **1**
 (a) India (b) Russia (c) S. Africa (d) USA
- viii. Citronella is a _____. **1**
 (a) Annual (b) Perennial (c) Biennial (d) None of these
- ix. Scientific name of Berseem is _____. **1**
 (a) Pennisetum purpureum (b) Trifolium alexandrium
 (c) Medicago sativa (d) None of these
- x. Ideal time of sowing of Lucerne is _____. **1**
 (a) Oct.-Nov. (b) May-June (c) Jan. – Feb. (d) March-April
- Q.2 i. Write the botanical name and family of Wheat and Barley. **2**
 ii. Discuss the classification of wheat. **2**

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- iii. Write the Origin, climatic requirements, improved varieties and method of sowing of wheat. **4**
- OR iv. Discuss the economic importance, improved varieties, nutrient management and water management of Barley. **4**
- Q.3 Attempt any two:
- i. Write the name of improved varieties, fertilizer dose, seed rate and yield of chickpea. **4**
- ii. Write the name of improved varieties, fertilizer dose, seed rate and yield of lentil. **4**
- iii. Write the name of improved varieties, fertilizer dose, seed rate and yield of pea. **4**
- Q.4 i. Write the difference between Brown sarson and Yellow sarson in oil seeds. **2**
- ii. Write the name of improved varieties and seed rate of mustard. **2**
- iii. Discuss the origin, economic importance, climatic requirements and improved varieties of sunflower. **4**
- OR iv. Discuss the planting methods of sugarcane. **4**
- Q.5 i. What do you mean by medicinal crops? **1**
- ii. Write the botanical name and family of mentha, lemon grass and citronella. **3**
- iii. Discuss the menthe cultivation with following heads-Propagation and planting, water management, fertilizer application and harvesting. **4**
- OR iv. Discuss the lemon grass cultivation with following heads- Propagation and planting, water management, fertilizer application and harvesting. **4**
- Q.6 Attempt any two:
- i. Discuss the berseem cultivation with following heads- Improved varieties, Seed rate and sowing, fertilizer application and yield. **4**
- ii. Discuss the lucerne cultivation with following heads- Improved varieties, Seed rate and sowing, fertilizer application and yield. **4**
- iii. Discuss the oat cultivation with following heads- Improved varieties, Seed rate and sowing, fertilizer application and yield. **4**

Marking Scheme

AG3CO25 Crop Production Technology-II (Rabi Crops)

Q.1	i.	Common wheat is _____.		1
		(c) Triticum aestivum		
	ii.	Salt tolerant variety of barley		1
		(a) Amber		
	iii.	The recommended seed rate for chick pea is _____.		1
		(c) 75-100 kg/ha		
	iv.	Pea should be treated with rhizobium inoculation of _____.		1
		(b) R. leguminosarum		
	v.	Fertilizer dose for irrigated rapeseed-mustard is _____ kg NPK /ha.		1
		(a) 60-40-40		
Q.2	vi.	Oil content of sunflower is _____.		1
		(b) 36-38 %		
	vii.	The centre of origin of Lemon grass is _____.		1
		(a) India		
	viii.	Citronella is a _____.		1
		(b) Perennial		
	ix.	Scientific name of Berseem is _____.		1
		(b) Trifolium alexandrium		
	x.	Ideal time of sowing of Lucerne is _____.		1
		(a) Oct.-Nov.		
Q.3	i.	Botanical name of Wheat	0.5 Mark	2
		Family of Wheat	0.5 Mark	
		Botanical name of Barley	0.5 Mark	
		Family of Barley	0.5 Mark	
	ii.	Classification of wheat.	(As per explanation)	2
	iii.	Origin	1 Mark	4
		climatic requirements	1 Mark	
		Improved varieties	1 Mark	
		Method of sowing of wheat.	1 Mark	
	OR iv.	Discuss the economic importance	1 Mark	4
Q.4		Improved varieties	1 Mark	
		Nutrient management and	1 Mark	
		Water management of Barley.	1 Mark	
Q.5	i.	Name of improved varieties,	1 Mark	4
		Seed rate and	1 Mark	
		Yield of chickpea.	1 Mark	
	ii.	Name of improved varieties	1 Mark	4
		Fertilizer dose	1 Mark	
		Seed rate	1 Mark	
		Yield of lentil.	1 Mark	
	iii.	Name of improved varieties	1 Mark	4
		Fertilizer dose	1 Mark	
		Seed rate	1 Mark	
Q.6		Yield of pea.	1 Mark	
Q.7	i.	Any four Difference	(0.5 Mark*4)	2
	ii.	Write the name of improved varieties and seed rate of mustard.		2
	iii.	Origin	1 Mark	4
		Economic importance	1 Mark	
		Climatic requirements	1 Mark	
		Improved varieties of sunflower.	1 Mark	
	OR iv.	Planting methods of sugarcane.	(As per explanation)	4
Q.8	i.	Medicinal crops	(As per explanation)	1
	ii.	Botanical name of mentha	1 Mark	3
		Botanical name of lemon grass	1 Mark	
		Botanical name of citronella	1 Mark	
	iii.	Propagation and planting	1 Mark	4
		water management	1 Mark	
		fertilizer application	1 Mark	
		harvesting	1 Mark	
	OR iv.	Propagation and Planting	1 Mark	4
		Water Management	1 Mark	
Q.9		Fertilizer application	1 Mark	
		Harvesting	1 Mark	
Q.10	i.	Attempt any two:		
		Improved Varieties	1 Mark	4
		Seed rate and Sowing	1 Mark	
		Fertilizer application	1 Mark	
		Yield	1 Mark	
	ii.	Improved varieties	1 Mark	4
		Seed rate and sowing	1 Mark	

	fertilizer application	1 Mark	
	yield.	1 Mark	
iii.	Improved varieties	1 Mark	4
	Seed rate and sowing	1 Mark	
	fertilizer application	1 Mark	
	yield.	1 Mark	
