

Total No. of Questions: 6

Total No. of Printed Pages:2

Enrollment No.....



Faculty of Agriculture
End Sem Examination May-2024

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. Assume suitable data if necessary. Notations and symbols have their usual meaning.

- Q.1 i. What kind of protein is present in wheat? **1**
(a) Gluten (b) Oryzenin (c) Saponin (d) Methionin
- ii. The most critical stage of irrigation of wheat- **1**
(a) CRI (b) Milk stage
(c) Dough Stage (d) All of these
- iii. Sour taste present in gram is due to- **1**
(a) Malic acid (b) Oxalic acid
(c) Both (a) and (b) (d) None of these
- iv. Seed rate of chickpea- **1**
(a) 80 kg/ ha (b) 120 kg/ha
(c) 50 kg/ha (d) 20 kg/ha
- v. Botanical name of sugarcane is- **1**
(a) Saccharum officinarum (b) Saccharum spontaneus
(c) Saccharum robusta (d) Saccharum barbadense
- vi. Family of sunflower is- **1**
(a) Asteraceae (b) Poaceae (c) Graminae (d) None of these
- vii. Lemon grass botanical name is- **1**
(a) Cymbopogan flexuosus (b) Cymbopogan religioasa
(c) Cymbopogan robusta (d) None of these
- viii. Family of lemon grass is- **1**
(a) Asteraceae (b) Poaceae (c) Graminae (d) None of these
- ix. Family of berseem is- **1**
(a) Asteraceae (b) Poaceae (c) Graminae (d) Leguminaceae

[2]

- x. Botanical name of berseem is- **1**
(a) Trifoloum alexandrium (b) Trifolium robusta
(c) Trifolium barbadense (d) None of these
- Q.2 i. Write about economic importance of wheat crop. **1**
ii. Write about geographical distribution of barley crop. **2**
iii. What kind of soil and field preparation, climatic requirements are required for wheat crop? **5**
- OR iv. Write about cultural practices adopted for wheat crop. **5**
- Q.3 i. Write about lentil botanical name and family. **1**
ii. Write the origin and geographical distribution of chickpea crop. **3**
iii. Write about economic importance, soil and climatic requirements of pea crop. **4**
- OR iv. Write about chickpea varieties and cultural practices performed in crop. **4**
- Q.4 i. Write the botanical name and family of mustard. **2**
ii. Write about sugarcane crop origin, geographical distribution, economic importance, soil and climatic requirements. **6**
- OR iii. Write about sunflower varieties, economic importance, soil and climatic requirements, cultural practices performed in crop. **6**
- Q.5 i. Write difference between medicinal and aromatic plant. **2**
ii. Define aromatic plants with example. **2**
iii. Write about citronella varieties, economic importance and soil requirement of the crop. **4**
- OR iv. What kind of cultural practices performed in mentha crop? **4**
- Q.6 Attempt any two:
i. Write about berseem varieties, economic importance and soil requirement of the crop. **4**
ii. Write about oat varieties, economic importance and climatic requirement of the crop. **4**
iii. Write about Lucerne varieties, economic importance and soil requirement of the crop. **4**

Marking Scheme

Crop Production Technology- II (Rabi- Crops) AG3CO25

Q.1	i.	What kind of Protein present on wheat?		1
		a. gluten	b.oryzenin	
		c.saponin	d.methionin	
	ii.	The most critical stage of irrigation on wheat		1
		a. CRI	b. milk stage	
		c.dough stage	d. all	
	iii.	Sour taste present on gram is due to?		1
		a.malic acid	b.oxalic acid	
		c. both	d.none	
	iv.	Seed rate of chickpea?		1
		a. 80 kg/ ha	b.120 kg/ha	
		c.50 kg/ha	d. 20 kg/ha	
	v.	Botanical name of sugarcane		1
		a. saccharum officinarum	b.saccharum spontaneous	
		c.saccharum robusta	d. saccharum barbadense	
	vi.	Family of sunflower		1
		a. Asteraceae	b.poaceae	
		c.graminae	d. none	
	vii.	Lemon grass botanical name		1
		a. Cymbopogan flexuosus	b. Cymbopogan religioasa	
		c. Cymbopogan robusta	d. none	
	viii.	family of lemon grass		1
		a. Asteraceae	b.poaceae	
		c. graminae	d. none	
	ix.	Famiy of berseem		1
		a. Asteraceae	b.poaceae	
		c.graminae	d. leguminaceae	
	x.	Botanical name of berseem		1
		a. trifoloum alexandrium	b.trifolium robusta	
		c.trifolium barbadense	d. none	
Q.2	i.	Write about economic importance of wheat crop?	1 marks	1
	ii.	Write about geographical distribution of barley crop?	2 marks	2
	iii.	What kind of soil	1 marks	5
		markand field prepration	2 marks	
		climatic requirements required for wheat crop?	2 marks	

OR	iv.	Write about cultural practices adopted for wheat crop?	5 marks	5
Q.3	i.	Write about lentil botanical name and family	½ marks ½ marks	1
	ii.	Write about chickpea crop Origin geographical distribution	1 marks. 2 marks	3
	iii.	Write about economic importance Soil and climatic requirements of pea crop	1 marks 1 marks 2 marks	4
OR	iv.	Write about chickpea varieties cultural practices performed in crop	2 marks 2 marks	4
Q.4	i.	Write about mustard botanical name and family	1 marks 1 marks	2
	ii.	Write about sugarcane crop Origin geographical distribution economic importance soil and climatic requirements	1 marks 1 marks 1 marks 2 marks	6
OR	iii.	Write about sunflower varieties , economic importance Soil and climatic requirement cultural practices performed in crop	1 marks 1 marks 1 marks 2 marks	6
Q.5	i.	Difference between medicinal and aromatic plant ?	2 marks	2
	ii.	Define aromatic plants with example?	1 marks	2
	iii.	Write about citronella varieties , economic importance and soil requirement of the crop?	2 marks 1 marks 1 marks	4
OR	iv.	What kind of cultural practices performed in mentha crop?	4 marks	4
Q.6		Attempt any two:		
	i.	Write about berseem varieties economic importance (1) and soil requirement of the crop?	2 marks 1 marks 1 marks	4
	ii.	Write about oat varieties economic importance climatic requirement of the crop?	2 marks 1 marks 2 marks	4

iii. Write about Lucerne varieties
economic importanc
soil requirement of the crop ?

2 marks, **4**
1 marks
2 marks