

End Semester/Reappear (Semester I) Examination December 2024

Programme: M. Sc. (Ag.) Agronomy

Course: Agronomy of Major Cereals and Pulses

Course Code: 13A.AGRON.506

Enrolment no. _____

Full Marks: 50

Time: 2 Hrs.

Q.No.	Questions	CO	Bloom Taxonomy Category	Marks
Section I				
1	Short Answer type questions.			4 x 5 = 20
a	Discuss briefly soil and climatic requirement for wheat cultivation.	CO1	Understand	
	or			
b	Summarize the process of malting in barley.	CO1	Understand	
	or			
c	Discuss the importance of finger millets with its soil and climatic requirements.	CO2	Understand	
	or			
d	Briefly illustrate the classification of maize along with their botanical names and bases of their classification.	CO2	Apply	
	or			
e	Discuss the botanical description of pigeon pea.	CO1	Understand	
	or			
f	Summarise the harvesting, threshing and post-harvest management of pigeonpea.	CO1	Understand	
	or			
g	Interpret the importance of pulses according to your understanding.	CO4	Understand	
	or			
h	State the economic importance of horsegram along with its botanical name, family, origin.	CO4	Remember	
	or			
Section II				
Long Answer type questions.				
2	a. Explain the botanical description of barley. Distinguish the morphological differences between wheat, barley and oats, supported with well labelled diagrams.	CO3	Analyze	2 x 15 = 30
	b. Explain the botanical description of chickpea with well labelled diagram. Recommend any three high yielding varieties of chickpea.	CO3	Analyse + Evaluate	
	or			
	a. Compare the growth stages and yield of sorghum in irrigated versus rainfed environments.	CO3	Analyze	
3	b. Differentiate between garden pea and field pea. Create a well labelled diagram of field pea along with its brief botanical description.	CO3	Analyse + Create	
	or			
4	a. Describe the economic importance and usages of chickpea. Compare the two broad groups of Indian gram: Desi type and Kabuli type.	CO4	Understand	
	b. Summarise classification of blackgram, pigeonpea and greengram along with three varieties of each crop.	CO4	Analyze	
	or			
	a. Prepare a chart depicting seed rate, sowing time, seed treatment, spacing and depth of sowing of chickpea.	CO4	Understand	
5	b. Differentiate between kharif and rabi pigeonpea. Explain its importance and usages.	CO4	Analyze	
	or			

At the end of the course the students will be able to

CO1 Understand production technologies and post-harvest handling and processing of selected major rabi and kharif cereal and pulse crops.

CO2 Estimate crop yield on the basis of yield attributes and protein content in pulses.

CO3 Work out growth indices and harvest index of selected rabi and kharif crops.

CO4 Plan and layout field experiments and comprehend the seed production technique.