

End Semester/Reappear (Semester IV) Examination May 2025

Programme: B. Sc. (Hons.) Agriculture

Course: Introductory Agrometeorology & Climate Change

Course Code: 13A.266

Enrolment no. _____

Full Marks: 50

Time: 2 Hrs.

Q.No.	Questions	CO	Bloom Taxonomy Category	Marks
Section I				
1	Short Answer type questions.			
a	List any five instruments and equipment's used in agrometeorology and mention their purposes.	CO1	Remember	4 x 5 = 20
	or			
b	Compare meteorology and agricultural meteorology.	CO1	Understand	
	or			
b	Briefly explain mean annual cycle of temperature with a graph.	CO2	Understand	
	or			
c	Discuss solar radiation and its importance for crop production.	CO2	Understand	
	or			
c	Define relative humidity. State the importance of humidity in our daily life.	CO2	Understand	
	or			
d	Describe the formation of dew and fog.	CO2	Remember	
	or			
d	Briefly discuss the types of weather forecasting based on validity periods.	CO3	Understand	
	or			
d	Discuss the impact of climate change on regional and national agriculture.	CO3	Understand	
	or			
Section II				
Long Answer type questions.				2 x 15 = 30
2	a. Appraise the meaning and scope of agricultural meteorology.	CO1	Analyze	10
	b. Differentiate between mesosphere and stratosphere in detail.	CO1	Understand	5
	or			
	a. Categorize the various types of wind, also define wind. Discuss the daily and seasonal variation of wind.	CO1	Analyze	10
3	b. Differentiate between land breeze and sea breeze.	CO1	Understand	5
	or			
	a. Analyze the strategy to mitigate the effect of climate change in agriculture.	CO3	Analyze	10
	b. Compare weather and climate.	CO3	Understand	5
3	or			
	a. Explain the importance of weather forecasting. Discuss different types of weather forecast and their uses.	CO3	Analyze	10
3	b. Illustrate how weather forecasting is important for agriculture.	CO3	Apply	5
	or			

Course Outcome:

At the end of the course the student will be able to:

CO1 Comprehend the importance of agro meteorology and its application in agriculture fields.

CO2 Understand the role of solar radiation, energy balance of earth on crop growth atmospheric humidity and various forms of precipitation and cloud formation.

CO3 Interpret importance of monsoon and weather hazards and relate weather with climate change in crop production.