

End Semester/Reappear (Semester IV) Examination May 2025

Programme: B. Sc. (Hons.) Agriculture

Course: Principles of Seed Technology

Course Code: 13A.263

Enrolment no. _____

Full Marks: 50

Time: 2 Hrs.

Q.No.	Questions	CO	Bloom Taxonomy Category	Marks
Section I				
1	Short Answer type questions.			
a	Compare between scientifically produced seed and grain.	CO1	Understand	4 x 5 = 20
	or			
b	Describe key characters of a good- quality seed.	CO1	Understand	
	or			
c	Briefly describe how electrophoresis is used to assess varietal purity in seed lots.	CO2	Understand	
	or			
d	Explain the Varietal Identification through Grow Out Test in seed.	CO2	Understand	
	or			
e	Define seed processing and mention its steps in cereals through a flow chart.	CO3	Remember	
	or			
f	Discuss the seed drying process and its processing steps.	CO3	Remember	
	or			
g	Discuss the factors affecting seed marketing in developing countries.	CO3	Understand	
	or			
h	Explain the role of the WTO in harmonizing international seed trade.	CO3	Understand	
	or			
Section II				
Long Answer type questions.				2 x 15 = 30
2	Classify the various seed types based on their production and certification status, as well as their breeding and genetic constitution methods.	CO1	Analyse	10
	Define seed technology. Explain the importance of seed technology in agriculture.	CO1	Remember	5
	or			
	Explain the steps involved in foundation seed production technology of chickpea.	CO1	Analyse	10
3	State the duties and powers of a seed inspector under the Seeds Act, 1966.	CO1	Remember	5
	Analyse the role of OECD Seed Schemes with WTO frameworks for seed certification and marketing, focusing on their impact on global seed trade.	CO3	Evaluate	10
	Illustrate the structure of seed marketing for seed distribution.	CO3	Apply	5
	or			
4	Explain the importance of the World Trade Organization in seed marketing.	CO3	Analyse	10
	Explain seed sampling in different crop seeds	CO3	Apply	5

Course Outcome:

At the end of the course, the student will be able to;

CO-1 Develop entrepreneurship skills for the commercial production of seed.

CO-2 Perform basic research related to genetic purity, seed health and seed storage.

CO-3 Able to explain about seed certification procedure, seed drying, processing, cleaning, testing, packaging, storage, marketing, seed laws IPR issues and PPVFR Act to cater the needs of fast growing seed sector.