K. J. SOMAIYA INSTITUTE OF TECHNOLOGY, SION, MUMBAI-22
(Autonomous College Affiliated to University of Mumbai)

May – June 2025		
B. Tech Program: Artificial Intelligence & Data Science		Scheme IIB
Regular Examination/ Supplementary examination: TY Semester: VI		
Course Code: **AIDLC6052** and Course Name: **AI In Agriculture**		
Date of Exam: 24/05/2025	Duration: 02.5 Hours	Max. Marks: 60

(1)All questions are compulsory.
(2)Draw neat diagrams wherever applicable.
(3)Assume suitable data, if necessary.

Q. No.	Question	Max. Marks	CO	BT level
Q 1	Solve any **two** questions out of three: (05 marks each)			
a)	What is soil genesis? Briefly explain the factors influencing it.	10	CO1	Un
b)	Explain the impact of climate on soil formation.		CO2	Un
c)	Discuss about Agricultural IOT.		CO6	Un
Q 2	Solve any **two** questions out of three. (05 marks each)			
a)	Illustrate how agronomy contributes to sustainable farming.	10	CO3	Ap
b)	List and explain any four post-emergence practices in crop production.		CO5	Un
c)	Explain the concept of utilizing fertilizer and its application equipment.		CO4	Un
Q.3	Solve any **two** questions out of three. (10 marks each)			
a)	Discuss how soil classification affects fertilizer recommendations.	20	CO2	Un
b)	Discuss about classification of Agronomical crops.		CO3	Un
c)	Compare traditional and modern agricultural technologies with examples.		CO4	Un
Q.4	Solve any **two** questions out of three. (10 marks each)			
a)	Discuss about equipment for sowing in agriculture.	20	CO5	Un
b)	Explain about various sensors used in agricultural IOT.		CO6	Un
c)	Explain about Organic manures and its types in detail.		CO4	Un

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