

# Model Question Paper- I

## CBCS SCHEME

### First/ Second Semester B.E Degree Examination

### Principles of Soil Science and Agronomy (1BSSA105)

TIME: 03 Hours

Max. Marks: 100

Notes:

1. Answer any FIVE full questions, choosing at least ONE question from each MODULE
2. M: Marks, L: Bloom's level, C: Course outcomes.

Module - 1			M	L	C
Q. 1	a	Define 'Agro-meteorology' and explain its practical utility.	10	2	1
	b	Explain the classification of crops based on their origin with examples.	10	2	1
OR					
Q. 2	a	Explain about the composition and structure of atmosphere?	10	2	1
	b	List any five national agricultural research institutes in India and briefly describe their contributions.	10	2	1
Module – 2					
Q. 3	a	Describe different types of tillage.	10	2	2
	b	What is an Integrated Farming System (IFS)? Explain its components and advantages.	10	2	2
OR					
Q. 4	a	Explain the methods of sowing and their suitability for different crops.	10	2	2
	b	What are the critical growth stages of crops? Explain their importance in crop management.	10	2	2
Module – 3					
Q. 5	a	What do you understand by term soil science and differentiate between the surface and subsurface soil?	10	2	3
	b	Explain the role of climate, organisms, and time in the weathering process.	10	2	3
OR					
Q. 6	a	Explain the classification of rocks with examples.	10	2	3
	b	Define soil forming processes and explain its different types.	10	2	3
Module – 4					
Q. 7	a	Define Soil air and explain the management of soil air.	10	2	4
	b	Define soil temperature. How does it influence plant growth and development?	10	2	4
OR					
Q. 8	a	Define soil profile. Explain its different horizons with neat diagram.	10	2	4
	b	Explain the classification of soil texture.	10	2	4
Module – 5					
Q. 9	a	Explain the factors influencing cation exchange capacity (CEC) of soils.	10	2	5
	b	List the essential plant nutrients and classify them based on quantity and function.	10	2	5
OR					
Q. 10	a	What is soil organic matter? Describe its uses in improving soil fertility and plant growth.	10	2	5
	b	What are acid soils? Discuss their formation and reclamation practices.	10	2	5