

SHRI RAMSWAROOP MEMORIAL UNIVERSITY

End Semester Examination (2021-22)-Odd Semester

B.Sc. (Agriculture) – I Year (I Sem)

Course Name: Fundamentals of Soil Science

Code: BAG1703

Time: 02 Hours

Max Marks: 50

University Roll No.

(To be filled by the Student)

Note: Please read instructions carefully:

- The question paper has 03 sections and it is compulsory to attempt all sections.
- All questions of Section A are compulsory; questions in Section B and C contain choice.

Section A: Very Short Answer type Questions Attempt all the questions.		BL	CLO	Marks (10)
1.	List various factors causing soil erosion.	BL1	CLO4	02
2.	Summarize effects of salinity and alkalinity on plant growth.	BL2	CLO4	02
3.	Tell about vegetative cover and organic matter.	BL1	CLO4	02
4.	Recall various components of Soil.	BL1	CLO1	02
5.	Define bulk and true density.	BL1	CLO3	02
Section B: Short Answer Type Questions Attempt any 03 out of 05 questions.		BL	CLO	Marks (24)
1.	Illustrate the contour cultivation and write their advantage in context of soil erosion.	BL2	CLO4	08
2.	Outline the porosity and discuss how does soil aeration affect plant growth and development?	BL2	CLO3	08
3.	Examine the characteristic properties of surface and sub-surface soils.	BL4	CLO2	08
4.	Interpret the effect of soil temperature on plant growth and productivity.	BL5	CLO3	08
5.	Elaborate the process of humus formation.	BL6	CLO4	08
Section C: Long Answer Type Questions Attempt any 01 out of 03 questions. Answer question in appropriate word limit.		BL	CLO	Marks (16)
1.	Explain soil profile in detail with the help of a sketched diagram	BL5	CLO2	16
2.	Discuss the soil organic matter. How does it affect the physico-chemical properties of soil.	BL6	CLO4	16
3.	Elaborate the origin, distribution and properties of black cotton soils of India.	BL6	CLO2	16