

QP Code: D136608		Total Pages: 1	Name:
			Register No.
FIRST SEMESTER B.VOC (CUFYVP) REGULAR EXAMINATION NOVEMBER 2025			
ORGANIC FARMING			
OGF1CJ102- FUNDAMENTALS OF SOIL SCIENCE			
2025 Admission			
Maximum Time :2 Hours			Maximum Marks :60
Section A			
All Questions can be answered. Each Question carries 2 marks (Ceiling : 20 Marks)			
1	Define soil profile.		
2	Differentiate between Eluviation and Illuviation.		
3	What is PWP.		
4	Define soil moisture deficit.		
5	Explain Horizonation.		
6	Expand SPAC.		
7	What is metamorphic rock. Give two examples.		
8	Explain the role of primary minerals in the context of soil formation.		
9	What are the benefits of soil air?		
10	Explain soil water potential.		
11	What is plant available water?		
12	Differentiate between matrix potential and osmotic potential.		
Section B			
All Questions can be answered. Each Question carries 6 marks (Ceiling : 30 Marks)			
13	Understanding soil moisture deficit is essential for sustainable water management. Evaluate the statement.		
14	Briefly explain land capabilities classes.		
15	Discuss the role of organic matter in maintaining physical properties of soil.		
16	What are soil aggregates and explain the formation of soil aggregates.		
17	Define the Carbon-to-Nitrogen (C:N) ratio and explain how its influence on the decomposition		
18	Discuss the physical weathering of rock.		
Section C			
Answer any ONE .Each Question carries 10 marks (1x10=10 Marks)			
19	Write a detailed note on soil profile and its horizons.		
20	Soil formation is a complex process of creating soil from parent material evaluate this statement by explaining the soil formation process and various factors affecting soil formation.		