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Gandhi Institute of Engineering and Technology University, Odisha, Gunupur
(GIET University)

B. Sc. (Ag.) (First Semester - Regular) Examinations, January – 2026

AC-111 – Fundamentals of Soil Science

Time: 2 hrs | Maximum: 40 Marks

Answer ALL questions
(The figures in the right hand margin indicate marks)

PART – A **(2 x 5 = 10 Marks)**

Q.1. Answer ***ALL*** questions

		CO #	Blooms Level
a.	Which soil orders are mostly not found in India?	CO4	K2
b.	Note down the 4 types of soil consistency.	CO2	K1
c.	2:1 silicate mineral is expandable in nature. Why?	CO1	K3
d.	What is the difference between peds and clods?	CO1	K2
e.	Write down 5 characteristics of clay soil?	CO3	K1

PART – B **(6 x 5 = 30 Marks)**

Answer ***any 5 of*** the questions

		Marks	CO #	Blooms Level
2.	Explain Rock Cycle with suitable sketch.	5	CO1	K1
3.	Define soil moisture constant and explain all the key soil moisture constant.	5	CO2	K1
4.	Define soil structure and classify based on its size, grade and shape with suitable sketch.	5	CO2	K2
5.	Briefly describe the factors affecting composition of soil air.	5	CO3	K2
6.	Write down about any two specific pedogenic processes.	5	CO3	K3
7.	Explain the various categories of soil taxonomy.	5	CO4	K2

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