



Reg. No.:

Name:

University of Kerala

First Semester FYUGP Degree Examination, December 2025

Discipline Specific Core Course

GEOLOGY

UK1DSCGLY120 - Solid Earth

Academic Level: 100-199

2024 Admission onwards

Time: 1 Hour 30 Minutes(90 Mins.)

Max. Marks: 42

Part A. 6 Marks.Time:6 Minutes.(Cognitive Level:Remember(RE)/Understand(UN)) Objective Type. 1 Mark
Each.Answer all questions

Qn No.	Question	CL	CO
1	Name one rock-forming mineral.	RE	3
2	Weathering, erosion and deposition are examples of: Options : A)Endogenic processes B)Exogenic processes C)Volcanic processes D)Seismic processes	RE	2
3	Which statement best explains the difference between a rock and a mineral? Options : A) Rocks are man-made, minerals are natural B)Minerals are mixtures of rocks C)Rocks are made up of one or more minerals D)Rocks and minerals are exactly the same	UN	3
4	What is Elastic rebound theory?	UN	2
5	12. The rock cycle shows that: Options : A)Rock types are fixed and unrelated B)Any rock type can be transformed into another rock type over geological time C)Only igneous rocks can become metamorphic D)Rocks never change once formed	UN	3
6	Geologic time unit which is known as Age of Dinosaurs.	UN	3

Part B.8 Marks.Time:24 Minutes.(Cognitive Level:Understand(UN)/Apply(AP))Short Answer. 2 marks each.Answer all questions

Qn No.	Question	CL	CO
7	Explain the difference between weather and climate with one example.	UN	1
8	What is the Shape of Earth and why is it so?	UN	1

Qn No.	Question	CL	CO
9	Explain how plate tectonics combines ideas of continental drift and seafloor spreading.	AP	2
10	What is the importance of principles of stratigraphy?	AP	3

Part C. 28 Marks. Time: 60 Minutes (Cognitive Level: Apply(AP)/Analyse(AN)/Evaluate(EV)/Create(CR)) Long Answer. 7 marks each. Answer all 4 Questions choosing among options * within each question

Qn No.	Question	CL	CO
11	<p>A)</p> <p>Apply your knowledge of endogenic and exogenic processes to explain the formation and later modification of a mountain range (such as Himalayas and western ghats)?</p> <p>OR</p> <p>B)</p> <p>Using the concept of plate boundaries, explain why some regions of the world (for example, Japan, Chile, Indonesia) experience frequent earthquakes and volcanic eruptions.</p>	AP	2, 2
12	<p>A)</p> <p>Analyze how the rock cycle demonstrates that earth is a dynamic system with continuous recycling of material.</p> <p>OR</p> <p>B)</p> <p>What is a mineral? What is the difference between rock forming minerals and ore forming minerals with examples? Analyze and evaluate its importance.</p>	AN	3, 3
13	<p>A)</p> <p>Evaluate the extent to which human activities have altered the natural balance of gases in the atmosphere. Discuss both beneficial and harmful impacts with examples.</p> <p>OR</p> <p>B)</p> <p>Describe the geological time scale and explain the significant events or life forms that characterize each division.</p>	EV	1, 3
14	<p>A)</p> <p>Explain in details Earthquake and its causes. Create a response plan for your college, if it occurs near your college.</p> <p>OR</p> <p>B)</p> <p>Explain Plate tectonics process, how many plate boundaries are there? Draw neat figures if needed. What is seafloor spreading.</p>	CR	2, 2

Qn No.	Question	CL	CO

Model QP