

Reg. No.:



Name:

University of Kerala

U8768

Second Semester FYUGP Degree Examination, April 2025

Discipline Specific Core Course

GEOLOGY

UK2DSCGLY120 - Earth surface processes

Academic Level: 100-199

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	 Lake are formed due to volcanic activity	RE	2
2	Give an example of a deep-sea trench.	RE	1
3	Inland bodies of water found in natural depressions surrounded by higher ground are called.	UN	2
4	Name the different zones in a soil profile.	UN	2
5	Name a permafrost region in Kerala.	UN	2
6	Small asymmetrical ridges formed at right angles to the wind direction at deserts are called.	UN	2

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	Match the following:	UN	2	
	Mass wasting			Characteristics
	Rockfall			Rapid movement of water-saturated material
	Slump			Slow, imperceptible movement of soil
	Soil creep			Downward movement of a curved surface
	Debris flow			Sudden free fall of rock fragments
8	Explain the role of mid-ocean ridges (MORs) in seafloor spreading.	UN	2	
9	Explain how waves contribute to coastal erosion.	AP	2	
10	State whether True or False: “A steep slope is more stable than a gentle slope.” Substantiate your answer	AP	2	

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	A) Compare different types of glaciers and their impact on landform development. OR B) Examine the depositional landforms of streams and their role in sediment transport.	AP	2, 2
12	A) How does groundwater contribute to erosion? Explain with examples of erosional landforms. OR B) Analyze the erosional landforms created by rivers and their formation processes.	AN	2, 2
13	A) Compare and contrast dendritic and trellis drainage patterns. What geological conditions led to their formation? OR B) Different regions experience different types of weathering. Explain how physical, chemical, and biological weathering affect a rainforest, a desert, and a mountain region.	EV	2, 1
14	A) Integrate the factors influencing slope stability and the triggering mechanisms causing landslides. OR B) Illustrate the cycle of erosion and analyze its different stages.	CR	1, 1