

Reg. No.:



Name:

University of Kerala

U9302

Second Semester FYUGP Degree Examination, April 2025

Multi-Disciplinary course

GEOLOGY

UK2MDCGLY120 - The Dynamic Earth

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	What does runoff refer to in the water cycle? Options : A)Water that evaporates into the atmosphere B)Water that flows across the ground into rivers and oceans C)Water that condenses into clouds D)Water stored underground	RE	1
2	Name the landform created by wind deposition in a desert region.	RE	1
3	Compare Gorge and Canyon?	UN	3
4	Frost heaving is the process in which water freezes in the soil, causing expansion and lifting of the surface. This phenomenon is commonly observed in _____ regions.	UN	1
5	Name the vertical or inclined passages in cave formation	UN	1
6	If Normal faults are mostly found in Divergent setting, which type of faults are associated in convergent setting	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 formation and characteristics of moraines.	UN	1
8	Discuss zone of saturation and zone of aeration	UN	1
9	Classify subsurface occurrence of Groundwater	AP	2
10	Explain braided stream and their characteristics?	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	A) Examine joints and its geological significance? OR B) Explain the concept of an Aquifer and its significance in Groundwater storage	AP	3, 3
12	A) Analyze how geosynclines evolve into mountain belts.	AN	3, 1

Qn No.	Question	CL	CO
	OR B) Discuss the concept of 'abrasion' in glacial erosion and provide examples of the landforms it creates.		
13	A) Assess the role of Groundwater in water cycle OR B) Describe the process of stream deposition in a meandering stream with neat sketch?	EV	3, 2
14	A) Suggest steps in reducing the impact of dam construction on downstream components of the hydrological cycle. OR B) Write down the formation of an aeolian landform known as a 'dune'. Draw and explain the different types of dunes based on their shapes and formation processes.	CR	1, 1