

Reg. No.:



Name:

University of Kerala

U9301

Second Semester FYUGP Degree Examination, April 2025

Multi-Disciplinary course

GEOLOGY

UK2MDCGLY100 - Geoscience and Environmental Management

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 is an aquifer?	RE	1
2	Which landform is created by the deposition of sediments at the mouth of a river? Options : A)Canyon B)Delta C)V-Shaped valley D)Sinkhole	RE	2
3	Lehmann discontinuity separates between -----	UN	1
4	Which type of natural hazard is most commonly associated with climate change? Options : A)Earthquake B)Volcanic eruption C)Cyclone D)Tsunami	UN	3
5	A seismogram shows the arrival times of _____ and _____ waves.	UN	2
6	Which of the following is not a method of solid waste management? Options : A)Composting B)Landfilling C)Recycling D)Deforestation	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	List any four environmental effect of air pollution.	UN	3
8	How oceanic crust is differentiated from continental crust?	UN	1
9	List these processes into physical weathering and chemical weathering - Frost action, oxidation, exfoliation, carbonation, hydration, insolation.	AP	2
10	Illustrate the formation of meanders with figure	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) How does chemical weathering differ from physical weathering? OR B) Explain the role of water in chemical and physical weathering.	AP	2, 2
12	A) Examine the formation of a volcano with a labelled diagram. OR B) Illustrate a hydrological cycle and give a short note on its major components	AN	2, 1
13	A) Draw the interior structure of the earth with help of its dimensions. OR B) Asses the various techniques involved in solid waste management	EV	1, 3
14	A) Explain the process involved in hydrological cycle and discuss how human activities and climate change can impact the natural balance of this cycle OR B) Design the interior of the earth and its influence in movement of tectonic plates and occurrence of Geological events such as Earthquakes and volcanic eruptions.	CR	1, 1