

Reg. No.:



Name:

University of Kerala

U8759

Second Semester FYUGP Degree Examination, April 2025

Discipline Specific Core Course

ENVIRONMENTAL SCIENCES

UK2DSCENS101 - Environmental Geology

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 the Geological Time Scale?	RE	1
2	Which seismic waves travel the fastest?	RE	3
3	Describe how are igneous rocks formed. Cite one example.	UN	2
4	Name the driving force behind plate tectonics.	UN	1
5	Give a note on stream ordering	UN	2
6	Express the relationship between water saturation and slope stability.	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	State the primary causes of earthquakes.	UN	5
8	Discuss the key factors contributing to coastal erosion	UN	3
9	What are the two major causes of water table fluctuations.	AP	3
10	Explain how rainwater harvesting can improve water sustainability.	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)	AP	5, 2

Qn No.	Question	CL	CO
	Discuss the main divisions of the geological time scale, including the major events that occurred in each era. OR B) Explain the physical properties of minerals used for their identification.		
12	A) Analyze how sedimentary rock gives ideas about past environments and climatic conditions. OR B) Analyse the characteristic properties of drainage basin.	AN	2, 1
13	A) Evaluate the long-term environmental effects of volcanic eruptions OR B) Evaluate the role of urban planning and building codes in minimizing cyclone damages in coastal areas.	EV	4, 3
14	A) Develop a classification system for sedimentary rocks based on their origin and composition. OR B) Create a public service announcement (PSA) poster about earthquake safety, including tips for preparing for and responding to an earthquake.	CR	2, 3