

Name:			
Enrolment No:			
End-Semester Examination, December 2025			
Course: Geomorphology		Semester : V	
Program: B.Sc. Geology (H)		Time : 03 hrs.	
Course Code: PEGS 3074		Max. Marks: 100	
Instructions: <i>Draw properly annotated diagrams wherever necessary.</i>			
SECTION A (5Qx4M=20Marks)			
SN		Marks	CO
Q1	Describe the lagoon and its importance in coastal geomorphological analysis.	4	CO1
Q2	Define an Oasis and explain its formation processes and geomorphic significance in arid landscapes.	2+2	CO2
Q3	Explain the Radiocarbon dating technique and its significance in geology.	4	CO2
Q4	Explain the formation process of River terraces and their significance in fluvial geomorphological studies.	4	CO1
Q5	Draw the contour map of a Basin with a depth of 500m (100m contour spacing) and prepare a cross-section across it along the X–Y line.	2+2	CO2
SECTION B (4Qx10M = 40 Marks)			
Q6	a) Describe the procedure for identifying topographic sheets from the million-scale to the quarter-degree scale for geological mapping. b) Apply this method to determine and illustrate the topographic sheet located immediately south of 53N/7.	5+5	CO2
Q7	Illustrate and explain Davis’s theory of crustal change and slope development, emphasizing its main principles and significance in landscape evolution.	10	CO1
Q8	Explain Karst topography and describe any four associated landforms. Support your answer with labelled diagrams.	5+5	CO4
Q9	Describe the concept of drainage pattern formation. Draw and describe any three types of drainage patterns with labeled diagrams.	10	CO3
	OR		
	Explain any four coastal landforms and draw a cross-section of the oceanic zones, clearly labeling and annotating each zone.		
SECTION-C (2Qx20M=40 Marks)			
Q10	a) Draw a flow chart illustrating the detailed morphometric analysis technique. b) Explain two of each types (Linear, Areal, and Relief parameters), including their methods of calculation and applications in geomorphic studies.	10+10	CO3

Q11	a) Explain how tectonic, magmatic, and geomorphic processes are involved in the formation of the convergent margins. (5m)	20	CO4
	b) Draw different stages in an annotated diagram. (5m)		
	c) Explain any 4 types of basins formed in the convergent margin. (10m)		
	OR		
	d) Draw a flowchart showing the major Endogenic and Exogenic geomorphic processes. (5m)		
	e) Explain any 5 processes with reference to the forces involved and the landforms produced. (10m)		
	f) Support your answer with well-labeled diagrams. (5m)		

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