



Name:	
Enrolment No:	

UPES
End Semester Examination, December 2023

Course: Introduction to Geology Program: B.Tech APE(Upstream) Course Code: PEGS2012	Semester: III Time : 03 hrs. Max. Marks: 100
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Instructions: Draw suitable sketch wherever necessary

SECTION A
(5Qx4M=20Marks)

Q 1	Define Index fossil and its significance	04	CO1
Q 2	Define unconformities and its types	04	CO1
Q 3	Classify igneous rocks with respect to their mineral composition	04	CO2
Q 4	Differentiate between lineation and foliation.	04	CO3
Q 5	Describe Turbidites and its importance	04	CO2

SECTION B
(4Qx10M= 40 Marks)

Q 6	Fossils are an important tool in rock dating-Defend the statement	10	CO5
Q 7	Explain the various modes of fossil preservation.	10	CO3
Q 8	a. Define Lehman discontinuity b. Explain Mid-oceanic ridge c. Differentiate between oceanic and continental crust d. Define hinge of fold e. Messa VS Butte	10	CO2
Q 9	The formation of meanders leads to the formation of Ox-Bow lakes- Analyze the same and give suitable conclusion. OR Organize the erosional features by wind corresponding to its different stages/ modes of erosion.	10	CO4

SECTION-C
(2Qx20M=40 Marks)

Q 10	Collision of two plates lead to the formation of subduction zones. Is it true always? Support/ argue with proper justification.	20	CO5
Q 11	Deltas are one of the prolific sites of hydrocarbon deposition. Validate the statement with suitable example. OR Explain Oozes in detail and assess their role in indicating thermal maturity of sedimentary rocks.	20	CO4