


Name:	 UPES UNIVERSITY OF TOMORROW
Enrolment No.:	

UPES
End Semester Examination May 2024

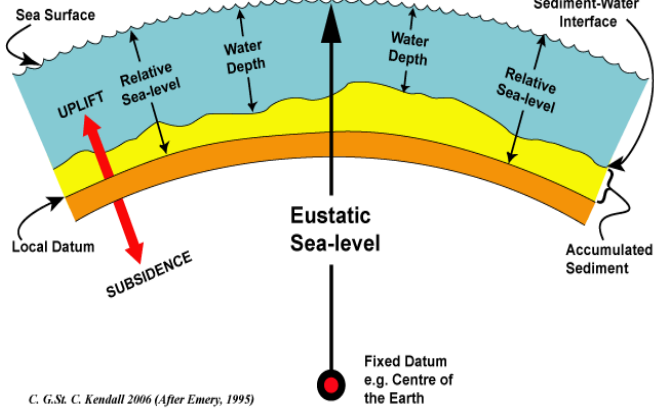
Programme Name: B.Sc. (Hons.) Geology	Semester: IV
Course Name : Stratigraphic Principles and Indian Stratigraphy	Time: 3hrs
Course Code : PEGS 2030	Max. Marks: 100
Nos. of page(s) : 02	

Instructions: All questions are compulsory, internal choice is given in Q8, Q9, Q10 and Q11

SECTION A

S. No.	Question	Marks	CO
Q 1	Define the Kareva formations of Kashmir	4	CO1
Q 2	Define the physiographic and tectonic subdivisions of India.	4	CO1
Q 3	Mention the causes responsible for eustatic change.	4	CO2
Q 4	Name the tectonic subdivision of Delhi super group.	4	CO2
Q 5	Write a short note on Rajmahal Trap traps.	4	CO1

SECTION B

Q 6	Provide detailed stratigraphic subdivisions of Trichinopoly group	10	CO3
Q 7	Explain the adjacent figure in relation to sea level changes. <div style="text-align: center;">  <p style="font-size: small; text-align: center;">C. G.St. C. Kendall 2006 (After Emery, 1995)</p> </div>	10	CO2
Q8	Illustrate depositional sequences and stacking patterns of parasequences OR Describe the system tracts (FSST, LST, TST HST, and MFS) with a suitable sketch		CO3
Q 9	With the help of a diagram define Walther's Law of Facies. OR	10	CO3

	Write an essay on Deccan Trap and discuss their mode of eruption, stratigraphy		
SECTION C			
Q 10	<p>Illustrate the geological distribution of Vindhyan Supergroup and describe the stratigraphic classification of Vindhyan Supergroup</p> <p>OR</p> <p>Describe briefly the following group of rocks with particular reference to their distribution, age, geology and palaeontological features</p> <ol style="list-style-type: none"> a. Spiti shale, b. Lameta bed c. Bagh Bed d. Marine rocks of Gondwana 	20	CO4
Q 11	<p>List important stratigraphic boundaries in India. Explain the Permian-Triassic boundary in detail.</p> <p>OR</p> <p>Explain the detailed stratigraphy of the Krishna-Godavari basin with special reference to their potential for hydrocarbon exploration.</p>	20	CO4