
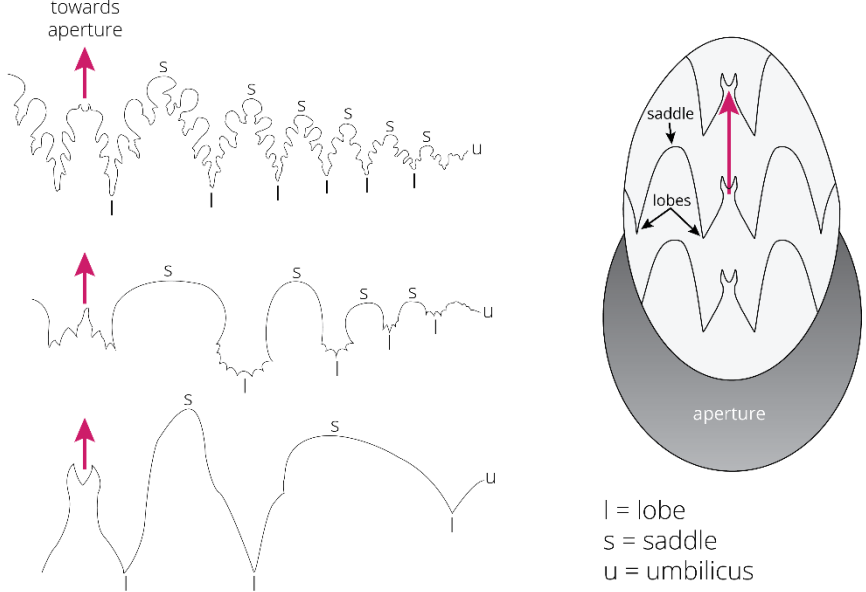


Name:			
Enrolment No:			
UNIVERSITY OF PETROLEUM AND ENERGY STUDIES End Semester Examination, December 2024			
Course Name: M.Sc. Applied Geology		Semester: I	
Program: Fossil Fuels and their Applicable, Stratigraphy and Palaeontology		Time: 3 hrs.	
Course Code: PEAG-7005		Max. Marks: 100	
Nos. of page(s) 2			
Instructions			
I. All questions are compulsory.			
II. Read the questions carefully and write the appropriate answers.			
III. Write the correct unit after numerical calculation.			
IV. Use a neat diagram with proper labeling to explain the answer.			
SECTION A (5Qx4M=20Marks)			
S. No.		Marks	CO
Q 1	State the principle of superposition and different laws of stratigraphy.	4	CO1
Q 2	Illustrate the different lithostratigraphic units.	4	CO1
Q 3	Discuss the types of fossil preservation with examples each type.	4	CO3
Q 4	Define an Index Fossil and its use in stratigraphy.	4	CO3
Q 5	Give the list of characteristic fossils that evolved in the Palaeozoic, Mesozoic, and Cenozoic Eras.	4	CO4
SECTION B (4Qx10M= 40 Marks)			
Q 6	Discuss the characteristic features of the Mesozoic Era in the domains of lithosphere, hydrosphere, atmosphere, biosphere, and tectonics. OR Explain the taphonomy. Give the main taphonomic attributes and processes.	10	CO2
Q 7	Discuss the Palaeo-biogeographic Implications of Fossils. Give one example each from the animal and plant kingdom.	10	CO2
Q 8	Explain the functional adaptations recorded in the Ammonoids.	10	CO2

<p>Q 9</p>	 <p>Identify the above-mentioned suture patterns found in the ammonites and name each one of them. Briefly write about the different chamber shapes of ammonoid shells.</p>	<p>10</p>	<p>CO2</p>
<p>SECTION-C (2Qx20M=40 Marks)</p>			
<p>Q 10</p>	<p>Describe in detail the stratigraphy of the Cuddapah and Vindhyan Supergroup.</p>	<p>20</p>	<p>CO4</p>
<p>Q 11</p>	<p>List different types of microfossil collections and provide the classification of acritarchs with a diagram.</p> <p style="text-align: center;">OR</p> <p>Classify the Foraminifera Loeblich and Tappan (1964). Briefly describe the classification of foraminifera based on their morphology/wall structure.</p>	<p>20</p>	<p>CO4</p>