


Name: Enrolment No:			
UNIVERSITY OF PETROLEUM AND ENERGY STUDIES End Semester Examination, December 2024			
Programme Name: B. Sc Geology [H]		Semester: V	
Course Name: Palaeontology		Time: 03 hrs	
Course Code: PEGS 3045			
Max. Marks: 100			
Nos. of page(s): 02			
Instructions: Attempts all questions. Use neat and labelled diagram to explain answer where is needed.			
SECTION A (5Qx4M=20Marks)			
S. No.		Marks	CO
Q 1	Define a fossil. List 5 applications of fossils.	4M	CO2
Q 2	Classify the microfossils into mineral- and organic-walled groups.	4M	CO1
Q 3	Write short notes on Ostracods	4M	CO1
Q 4	List the differences Between Bivalves and Brachiopods	4M	CO1
Q 5	Define micropalaeontology, and give examples.	4M	CO1
SECTION B (4Qx10M= 40 Marks)			
Q 6	Explain the different modes of the fossilization. <p style="text-align: center;">OR</p> Describe the following (a) Siwalik vertebrate fauna (b) Nano fossils and their applications	10M	CO1
Q 7	(a) Differentiate micro and nano fossils. (b) Discuss the apical disc in Echinoid	5+5=10M	CO3
Q 8	Discuss Evolution of Man.	5+5=10M	CO3
Q 9	(a) List the systematic positions of some common genera of nautiloids and ammonoids (b) Describe their morphological characters	5 M+ 5 M	CO4
SECTION-C (2Qx20M=40 Marks)			

Q 10	(a) Explain about the hinge in Lamellibranchia (b) Discuss the hard part morphology of gastropod shell	10 + 10=20 M	CO3
OR			
Q 10	Draw the dorsal view of a brachiopod shell showing internal morphology of the pedicle valve. Elaborate the morphological features.	10+10=20 M	CO4
Q11	(a) Analyse the importance of microfossils in palaeoclimatic studies. (b) Elaborate about the plant fossils of Gondwana period and their importance in global geological correlation.	10+10=20 M	CO5

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