

Name:	
Enrolment No:	

UNIVERSITY OF PETROLEUM AND ENERGY STUDIES

End Semester Examination, December 2021

Programme Name: B.Tech. GSE

Semester VII

Course Name: Applied Micropaleontology

Time 3 Hrs.

Course Code: PEGS 4008

Max. Marks: 100

Attempt all questions from all sections

SECTION A

Maximum 60 words for each answer

S. No.	Question	Marks	CO
1	Provide your views on fossil assemblage vs. index fossil.	4	CO2
2	Write short notes on morphometric and particle analysis.	4	CO6
3	What is acme zone? Define it with diagrams.	4	CO4
4	Provide your views on fossil assemblage vs. index fossil.	4	CO2
5	Write applications of Diatoms in environmental and earth sciences	4	CO3

SECTION B

Maximum 200 words for each answer

6	Write short notes on (any two)- a. Acritarch b. Radiolarian c. Ostracoda	10 (2*5)	CO3
7	Describe the wall structure and composition of fossil foraminifera. Explain the growth and development of the chamber of foraminifera with the help of suitable diagram.	10	CO3
8	Describe quantitative biostratigraphy with the help of different methods and biostratigraphy events.	10	CO6
9	What are the causes responsible for variation or errors in vitrinite reflectance measurements? Provide your recommendations to remove errors of the data or how can an explorationists better use the data. Or Describe stable isotope stratigraphy with application in micropaleontology.	10	CO4

SECTION-C

Maximum 500 words

10	Define Palynofacies with its applications in oil and gas industry. Explain Kerogen analysis with various thermal maturation scales.	20	CO4
11	Explain Shaw's graphic correlation methods with suitable diagrams. Describe the correlation in different sedimentation rate conditions in two different geological sections. Or What is biostratigraphy? Describe quantitative biostratigraphy with the help of different methods and biostratigraphy events.	20	CO5