Name: **Enrolment No:**	UPES UNIVERSITY WITH A PURPOSE

UNIVERSITY OF PETROLEUM AND ENERGY STUDIES
End Semester Examination, January 2021

Course: Micropaleontology **Semester: I**
Program: M.Sc. Petroleum Geoscience **Time: 03 hrs.**
Course Code: PEGS7007 **Max. Marks:100**

SECTION A

Attempt all questions **Words limit-60**

S. No.		Marks	CO
Q 1	What are the most critical factors affecting chronostratigraphic significance in biostratigraphy?	**5**	**CO4**
Q 2	Write applications of Diatoms in environmental and earth sciences.	**5**	**CO3**
Q 3	Provide your views on fossil assemblage vs. index fossil.	**5**	**CO1**
Q 4	Write short notes on morphometric and particle analysis.	**5**	**CO5**
Q 5	The advantages of 'microfossils' over 'megafossils' in biostratigraphy and paleogeological reconstruction is/are 1. They can be analysed up to the species level 2. They have facies independence 3. They are restricted vertically but widespread geographically a) 1 only b) 1 and 2 only c) 2 and 3 only d)All of the above	**5**	**CO5**
Q 6	Write short notes on geological time scale.	**5**	**CO1**

SECTION B

Attempt all questions **Words limit 200**

Q 7	What is micropaleontology? Write its application in petroleum exploration.	**10**	**CO1**
Q 8	Write shorts notes on- A. Dinoflagellate B. Acritarch	**10**	**CO2**
Q 9	What is palynology? Explain the techniques to interpret the organic matter maturation.	**10**	**CO2**
Q 10	Explain the morphology of fossil Foraminifera with its wall structures, composition and chamber growth with suitable diagram.	**10**	**CO4**
Q 11	Describe quantitative biostratigraphy with the help of different methods and biostratigraphy events. Or Describe stable isotope stratigraphy with application in micro-paleontoplogy.	**10**	**CO5**

SECTION-C Words limit-400			
Q 12	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 Index fossil? Describe its application in Biostratigraphy. 'Draw Acme zone' correlation of same species at different areas.	**20**	**CO3**