Name:

Enrolment No:



Semester: 6th

Time 03 hrs.

UNIVERSITY OF PETROLEUM AND ENERGY STUDIES

End Semester Examination, May 2019

Programme Name: B.Tech. GSE Course Name: Applied Micropaleontology

Course	Course Code: GSEG 306 Max. Ma		
Nos. of	page(s) 2		
•	SECTION A		
	empt all questions Maximum 60 word		
S. No.		Marks	CO
Q 1	Define fossil assemblage and why is this more accurate than index fossil to define biostratigraphy.	4	CO2
Q.2	Describe morphometric and particle analysis.	4	CO6
Q.3	Define Palynology and write short notes on spores and pollens.	4	CO4
Q.4	Write short note on utility of Diatoms for environmental and earth sciences.	4	CO3
Q.5	What is Acritarch? Write short note on it.	4	CO4
	SECTION B	·	
Attemp	t all questions Maximum 200v	vords for eacl	n answer
Q.5	What is thermal maturation of fossils? Describe different types of maturation index with respective scales.	es 10 (5+5)	CO4
Q.6	What is quantitative biostratigraphy? Explain it with the help of different quantitati methods those define biostratigraphic events.	ve 10 (4+6)	CO5
	Write short notes on- A. Ostrocoda B. Conodonts	10 (5+5)	CO4
Q.7	Define palynofacies. Explain Palynofacies and Kerogen analysis with their applications in oil industry. Or Describe stable isotope stratigraphy with applications in micro-paleontology	10 (4+6)	CO3
	Beserve small isotope smangraphy with approaches in finero pareontology		
	SECTION-C		
Attemp	t two questions, question 9 is compulsory	Maximum 50	00 words
Q.9	What are the Dinoflagellate? Explain ecology, paleoecology and stratigraph application of Dinoflagellates fossils groups.	ic 20 (5+5+5+ 5)	CO3
Q.10	What is Vitrinite? Explain vitrinite reflectance with misleading data, caution as recommendations required to gather accurate data for interpretation.		CO5
Q.11	Explain the workflow of source rock evaluation; and write about Thermal Alteration Index. How can we estimate organic thermal maturation and tendency to generate	on 20	CO5

hydrocarbon?	