

Name:

Enrolment No:



## UNIVERSITY OF PETROLEUM AND ENERGY STUDIES

End Semester Examination, May 2023

Program Name: Generic Elective - B.Sc Physics, Chemistry, Mathematics (Hons)

Generic Elective - Integrated B.Sc-MSc (Physics, Chemistry)

Semester : IV

Time : 03:00 hrs

Max. Marks: 100

Course Name : Fossils & their applications

Course Code : PEGS 2033 G

Nos. of page(s) : 1

Instruction: Draw sketches if necessary

### SECTION-A (5 x 4=20)

Attempt all questions

Sl. No.		Marks	CO
Q1	Describe required conditions of fossilization.	4	CO3
Q2	Illustrate general characteristics of a good index fossil.	4	CO3
Q3	Define Taxon range zone.	4	CO1
Q4	Distinguish between typomorphic and phylogenetic scheme of classification of animal kingdom.	4	CO2
Q5	Describe the role of conodonts to estimate the thermal maturation of sediments.	4	CO1

### SECTION-B (4 x 10=40)

Attempt all questions

Q6	Describe different modes of life habit of Trilobites.	10	CO4
Q7	Illustrate paleoecology of Brachiopoda.	10	CO4
Q8	Discuss geological history and stratigraphic importance of Bivalvia.	10	CO2
Q9	Describe the geological history of Glossopteris flora. OR Describe the limitations of using plant fossils for paleontological interpretation.	10	CO2

### SECTION-C (20 x 2=40)

Attempt all questions

Q10	Describe the scheme of classification of Dinosaurs.	20	CO3
Q11	Illustrate different diagnostic features of Pisces, Amphibia, Reptilia and Mammalia. OR Discuss the reasons of mass extinction of Dinosaurs at the end of Cretaceous.	20	CO3