

Name:	
Enrolment No:	

UNIVERSITY OF PETROLEUM AND ENERGY STUDIES
End Semester Examination, December 2019

Programme/Course: B.Tech. GSE

Semester: 3rd

Subject: Introduction to Geology

Time 03 hrs.

Course Code: PEGS2012

Max. Marks: 100

Nos. of page(s) 1

Note- Only for B.Tech. GSE 3rd semester students

SECTION A (All questions are compulsory)

S. No.		Marks	CO
Q 1	Why fossil assemblage is better than index fossil?	4	CO5
Q 2	Why does sound wave travel faster in a denser medium whereas light travels slower?	4	CO1
Q 3	What is continental drifting?	4	CO2
Q 4	Write the different discontinuities of the Earth interior in the order of surface to center.	4	CO1
Q 5	Define dip and strike of the geological bedding plane.	4	CO4

SECTION B (Attempt any four questions Max 200 words)

Q 6	What is igneous rock? Describe the classification of igneous rock with examples.	10	CO2
Q 7	Write short notes on- a. Shorting b. Roundness c. Matrix and Cement d. Grain Size	10 (2.5*4)	CO2
Q 8	What is weathering? Describe it with types and examples.	10 (2+8)	CO1
Q 9	What is micropaleontology? Write the applications of microfossils.	10	CO5
Q 10	What is earthquake? How can we measure it? Describe the seismic zones of India in hand drawn unscaled map.	10 (5*2)	CO1

SECTION-C (Q11 is compulsory, attempt any one from Q12 or Q13 - Max 500 words)

Q 11	What is fault? Explain it with morphology, classification and types of fault with neat sketch diagrams.	20 (5+5+0)	CO4
Q 12	Explain Vindhyan Super-group with lithological section and stratigraphic divisions.	20 (10+10)	CO3
Q 13	How does the movement of Earth's tectonic plates result in many geologic features? Describe the features associated with different types of plate boundaries.	20 (10+10)	CO2