



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

Course: Essentials of Geology
Program: B. Sc. Chemistry, B.Sc. Physics, Int. B.Sc. & M.Sc. Chemistry
Course Code: PEGS1003G

Semester: I
Duration: 03 hrs.
Max. Marks: 100

Instructions: All questions are compulsory in all the sections; however, internal choices are given in Q 8 (Section B) and Q 11 (Section C).

SECTION A

Each Question carries 4 Marks.

S. No.	Question	CO
Q 1	Illustrate the role of Geology.	CO1
Q 2	List various parts of the Earth and their composition and densities.	CO2
Q 3	a) Explain the requirement of the Geological Time scale. [3] b) List the period that marks the appearance of Fish. [1]	CO3
Q 4	Define Paleontology and illustrate its applications.	CO3
Q 5	List various types of texture found in Igneous rocks.	CO4

SECTION B

Each question carries 10 marks.

Q 6	(a) Define the term atmosphere. [2] (b) Describe the various layers of atmosphere illustrating their significance. [8]	CO1
Q 7	Explain various procedures for determining the age of Earth and evaluate the best method.	CO3
Q 8	Illustrate about types of tectonic plates and different formations associated with them. OR Describe sea-floor spreading & continental drift and the process of formation of mountains.	CO2
Q 9	Discuss various textures found in Igneous rocks with an example of rock and a neat sketch of textures.	CO4

SECTION-C

Each Question carries 20 Marks.

Q 10	Illustrate the history of Earth in relation to life history in a perfect sequential order using the Geological time scale.	CO3
Q 11	Describe in detail about formation and Classification of various types of Igneous rocks with examples. OR Describe in detail various physical properties used to identify minerals.	CO4