



Damietta University
Faculty of Science
Environmental Sciences Department
3rd Year Examination (May 2024)

جامعة دمياط
Damietta University
2nd Semester

Natural Disasters
Code: (311)
Time: 2 Hours
Full Mark: 70 degree

Answer with simple sketches the following questions:

- 1) Explain the following: (20 degree)
 - a) Earthquake Focus and Epicenter.
 - b) The use of seismograms and nomogram to estimate the magnitude of an Earthquake.

- 2) Discuss the following: (25 degree)
 - a) How Does Earthquakes Originate?
 - b) How is an Earthquake's Epicenter Located?

- 3) Explain the following: (25 degree)
 - a) Salt-fresh water aquifer geometries and how intensive groundwater pumping can cause saltwater intrusion in coastal aquifers.
 - b) How to control and manage saltwater intrusion.

Best regards

Prof. Dr. M. Abdelgalil