

NATIONAL OPEN UNIVERSITY OF NIGERIA PLOT 91, CADASTRAL ZONE, NNAMDI AZIKIWE EXPRESSWAY, JABI - ABUJA FACULTY OF SCIENCES

DEPARTMENT OF PURE AND APPLIED SCIENCE

2020_2 EXAMINATIONS...

COURSE CODE: PHY 361

COURSE TITLE: GEOPHYSICS II

CREDIT UNIT: 2

TIME ALLOWED: (2 HRS)

INSTRUCTION: Answer question 1 and any other three questions

QUESTION 1

Write short notes on the following terminologies:

a Explain what is meant by Saismic Defraction

(i) Seismic zone	(2.5 Marks)	(ii) Amplification	(2.5 Marks)
(iii) Seismicity	(2.5 Marks)	(iv) Seismic wave	(2.5 Marks)
(v) Seismography	(2.5 Marks)	(vi) Fault	(2.5 Marks)
(vii) Bulk density	(2.5 Marks)	(viii) Travel – time curve	(2.5 marks)
(ix) Thrust fault	(2.5 Marks)	(x) Attenuation	(2.5 Marks)

QUESTION 2

a Explain what is meant by Seisinic Kerraction.	(4 Mai K5)
b. Briefly discus the term Critical Distance in seismic refraction	(3 Marks)
c. Differentiate between seismic refraction and seismic tomography	(8 Marks)

(A Morke)

QUESTION 3

a. Discus the basic experimental principle of seismic reflection	(3 Marks)
b.List and explain any four sources of noise in seismic reflection method	(12 Marks)

QUESTION 4

a. Explain what is meant by Seismic waves	(4 Marks)
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b. What are the 3 types of seismic waves produced by earthquake and

how do they move? (9 Marks)

c. As a seismic wavelet propagates further and further through a rock medium, what happens to its amplitude spectrum? (2 Marks)

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QUESTION 5

a. Explain the any three of following terms:

(i) magnitude (ii) seismic energy

(iii) Seismic source (iv) headphone (9 Marks)

b. List any six types of seismic sources (6 Marks)