

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

DEPARTMENT OF PURE AND APPLIED SCIENCE

2021_2 EXAMINATIONS 5678

	2021_2 L2MMVIII 1/11 TO 1 (0 50/8	
COURSE CODE: COURSE TITLE: CREDIT UNIT: TIME ALLOWED:	PHY361 GEOPHYSICS II 2 (2 HRS)	
INSTRUCTION:	Answer question 1 and any other three questions	s
QUESTION 1		
(a) Briefly explain the formarks	ollowing i. Geophones ii. Seismometers iii.	Noise 3
(ii) Distinguish between a Seismograph and A Seismogram(b)i. State the theory behind seismic reflection.		3 marks 3 marks
 (ii) Describe geophones with the aid of a simple diagram (c) Explain reflection survey (ii) Describe the characteristics of seismic waves and formation of other types of waves. 		3 marks 3 marks 10 marks
QUESTION 2		
(a) Write short notes on the following in relation to reflection.		4 marks
(i) CMS - Common mid-	point shooting	
(ii) Depth Conversion.		4 marks
(b) Explain with aid of diagram Refractor Relief and True Velocities		s 7 marks
QUESTION 3		
(a) What are principal refractors?		5 marks
(b) With the aid of a diagram, explain critical refraction at two interfaces.		6 marks

4 marks

(c) Explain the terms positioning shots and centre shots

QUESTION 4

(a) What are intercept times? 3 marks

(b) Explain by the use of equations, the reciprocal time interpretations. 6 marks

(c) Differentiate between P wave and S wave 6 marks

QUESTION 5

(a) How Does A Seismograph Works? 5 marks

(b) Why do P-waves travel faster than S-waves? 10 marks