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

DEPARTMENT OF PURE AND APPLIED SCIENCE

APRIL/MY, 2019 EXAMINATIONS

COURSE CODE: PHY 361 **COURSE TITLE: GEOPHYSICS II** CREDIT UNIT TIME ALLOWED (2 HRS) **INSTRUCTION:** Answer question One (1) and any other three (3) questions **QUESTION 1 a.** Explain the following terminologies: (i) Reflection survey (3 Marks) (ii) Positioning shots (3 Marks) (iii) Centre shot (3 Marks) (iv) Time-distance plots (3 Marks) (v) Principal refractors (2 Marks) **b.** discus the basic concept of seismic reflection (3 marks) **c.** define seismic wave and differentiate between two broad types of seismic waves. (4marks) **d.** state the area of application of seismic reflection (4 marks) **QUESTION 2** a. Briefly describe p and surface waves with relevant equations (7 marks) b. State four (4) types of interaction between waves and subsurface geology (8 marks) **QUESTION 3** a. State the mathematical assumptions of predictive deconvolution (6 Marks) b. Enumerate and explain types of deconvolution (9 Marks) **QUESTION 4**

(5 marks)

(6 marks)

a. List five (5) types of seismic sources.

b. Describe briefly, three (3) seismic sources

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c. Enumerate two types method of acquisition of surface wave data. (4 marks)

QUESTION 5

a. Briefly describe the basic theory of Electrical resistivity. (7.5 Marks)

b. State five (5) areas of application of this method. (7.5 Marks)