



UNIVERSITY OF MINES AND TECHNOLOGY, TARKWA

SECOND SEMESTER EXAMINATIONS, MAY 2018

COURSE NO: GL 224

COURSE NAME: ORIENTATION DRILLING

CLASS: GD II TIME: 3 HOURS

Name: _____

Index Number: _____

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ANSWER ALL QUESTIONS

QN 1

Explain in detail the importance of drilling in nature **(10 marks)**

Describe briefly the various methods of drilling you know **(15 marks)**

QN 2

a. Discuss Orientation Drilling in industry **(10 marks)**

b. When do you decide to utilize Orientational Drilling **(15 marks)**

QN 3

(a) What is Borehole Surveying and how is it done. **(15 marks)**

(b) Give the reasons why deflection can occur during drilling **(10 marks)**

QN 4

(a) Why do wellbores deviate? **(5 marks)**

(b) Describe the methods employed to wedge a deviated hole **(10 marks)**

(c) When is it economical and what factors does industry take into account in making the decisions to utilise directional drilling? **(10 marks)**

Examiners: Daniel Nana Asamoah/ Assoc Prof Michael Affam