



UNIVERSITY OF MINES AND TECHNOLOGY, TARKWA
FIRST SEMESTER EXAMINATIONS, NOV. – DEC. 2018

COURSE NO: GL 133

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COURSE NAME: EXPLORATORY DRILLING AND SAFETY

CLASS: GD 1

TIME: 3 Hours

Name: _____ Index Number: _____

Answer all Questions

Question 1

Write short notes on the following:

- | | |
|--------------------------|-------------------------|
| a) Core recovery | f) Core barrel |
| b) Drilling records | g) Water swivel head |
| c) Hydraulic swivel head | i) Drill string |
| d) Drill Head Assembly | j) The Hydraulic System |
| e) Hoisting plug | k) Fishing |

(4 marks x 10 = 40 marks)

Question 2

- a) Discuss five safe drilling practices *(15 marks)*
- b) What are the factors that affect core recovery? *(5 marks)*

Question 3

- a) Discuss thoroughly diamond core drilling *(10 marks)*
- b) Give two advantages of wireline drilling over conventional drilling *(4 marks)*
- c) Differentiate between wireline and conventional coring operation *(6 marks)*

Question 4

- a) Explain briefly when under ream is carried out during drilling operation *(5 marks)*
- b) What is the difference between single tub and double tub core barrel? *(5 marks)*
- c) Briefly discuss the primary responsibility of the driller in an exploratory drilling programme *(10 marks)*

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