



UNIVERSITY OF MINES AND TECHNOLOGY, TARKWA
SECOND SEMESTER EXAMINATIONS, MAY 2018

COURSE NO: GL 132

COURSE NAME: WATER WELL DRILLING

CLASS: GD I

Unihubgh.com

TIME: 3 HOURS

Name: _____ Index Number: _____

Answer questions 1 and 2 and any other question.

1.
 - a. Briefly explain the following terms as applied in Water well drilling.

| | |
|----------------------|----------------------|
| i. Open well | ii. Exploration well |
| iii. Production well | iv. Hand pumps |
| v. Jetted wells | vi. Borehole yield |
| vii. Borehole yield | viii. Casing |
| ix. Water well | x. Driven wells |

(2 marks each)
 - b. List five (5) reasons why it is important for a driller to study water well drilling

(5 marks)
2.
 - a. State five (5) advantages and disadvantages of open well

(10 marks)
 - b. Explain the two (2) classification of open wells with one (1) example.

(6 marks)
 - c. List four (4) objectives of a well

(4 marks)
 - d. List five (5) advantages and disadvantages of a tube well

(10 marks)
3.
 - a. What is strainer tube wells

(2 marks)
 - b. Differentiate between strainer tube wells and gravel-pack well.

(3 marks)
 - c. List five (5) factors to consider when selecting a site for the construction of a borehole

(5 marks)
 - d. List five (5) duties of a drilling supervisor

(5 marks)
4.
 - a. Briefly explain five (5) factors to consider in well design and construction

(5 marks)
 - b. List five (5) causes associated with water well problems

(5 marks)
 - c. List three (3) advantages and two (2) advantages of reverse circulation

(5 marks)

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