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**University Examinations 2015/2016**

THIRD YEAR SECOND SEMESTER EXAMINATION

FOR DIPLOMA IN

CIVIL ENGINEERING

**ECV 2350: CIVIL ENGINEERING QUANTITIES II**

**DATE: APRIL 2016 TIME: 1 ½ HOURS**

**INSTRUCTIONS:** *Answer question* ***one*** *and any other* ***two*** *questions*

**QUESTION ONE (30 MARKS)**

Use the attached drawing to:

1. Take off all quantities
2. Abstract quantities
3. Prepare a bill of quantities (BQ) of all the substructure shown upto and including D.Pc.

Assume your own rates for the bill of quantities. (30 marks)

**QUESTION TWO (15 MARKS)**

The ‘unit rates’ in a bill of quantities submitted by contractors while bidding for tenders may vary widely.

1. What are these unit rates? (1 mark)
2. Explain SEVEN possible causes of the variation or disparity (14 marks)

**QUESTION THREE (15 MARKS)**

1. Explain two objectives of approximate estimating for each of the following:
2. The client
3. The Architect (8 marks)
4. Explain why tow methods of tendering for civil engineering works (7 marks)

**QUESTION FOUR (15 MARKS)**

Explain the duties and responsibilities of the following parties in a building and civil engineering contract:

1. The client
2. The architect
3. The structural engineer
4. The contractor
5. The local authority (15 marks)