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UNIVERSITI TUN HUSSEIN ONN MALAYSIA

**FINAL EXAMINATION
SEMESTER I
SESSION 2014/2015**

COURSE NAME : CONSTRUCTION ENGINEERING
COURSE CODE : BFC 21002
PROGRAMME : 2 BFF
EXAMINATION DATE : DECEMBER 2014 / JANUARY
2015
DURATION : 2 HOURS 30 MINUTES
INSTRUCTION : ANSWER ALL QUESTIONS

THIS QUESTION PAPER CONSISTS OF **THREE (3)** PAGES

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- Q1** (a) State the important of foundation in building construction. (4 marks)
- (b) Explain **two (2)** factors that contribute in the selection of foundation types for construction. (4 marks)
- (c) With the aid of sketches, illustrate the construction sequence for pad footing. (12 marks)
- Q2** (a) Differentiate the construction process for cut of pile work between spun pile and RC square pile. (8 marks)
- (b) With the aid of sketches, illustrate the sequence of work for bore pile construction. (12 marks)
- Q3** (a) State **four (4)** quality control aspects that should be taken in concrete work. (4 marks)
- (b) Sketch and explain **two (2)** important elements in setting out work for staircase construction. (8 marks)
- (c) Explain **four (4)** elements should be done in the preparation of concrete work at high place. (8 marks)

- Q4** (a) Describe, the following;
- (i) As-Built Drawing
 - (ii) PDA Test
 - (iii) Maintain Load Test
 - (iv) Pile Record
- (8 marks)
- (b) Providing suitable sketches, explain the method of pile set on spun pile.
- (12 marks)
- Q5** (a) Explain the construction process for square column.
- (10 marks)
- (b) State **four (4)** characteristic of good formwork system.
- (4 marks)
- (c) Outline **three (3)** important element to be consider in construction of non suspended slab.
- (6 marks)

- END OF QUESTION -