

## UNIVERSITI TUN HUSSEIN ONN MALAYSIA

## **FINAL EXAMINATION SEMESTER II SESSION 2017/2018**

COURSE NAME

: CONSTRUCTION ENGINEERING

COURSE CODE

BFC21002

PROGRAMME CODE :

BFF

EXAMINATION DATE :

JUNE/JULY 2018

DURATION

: 2 HOURS

INSTRUCTION : ANSWER ALL QUESTIONS

TERBUKA

THIS QUESTION PAPER CONSISTS OF THREE (3) PAGES

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## BFC21002

Q1	(a)	Describe the site investigation method for bore hole test using suitable sketch.  (6 marks)
	(b)	Briefly discuss method of setting out position for vertical and raked pile before construction process and sketch a suitable diagram to help your explanation.  (10 marks)
	(c)	Prepare typical method cut off level for spun pile using suitable sketch to elaborate your discussion.  (9 marks)
Q2	(a)	Define the main function of the following construction elements:  (i) stater bars  (2 marks)
		(ii) lean concrete (2marks)
		(iii) stump (2 marks)
	(b)	Sketch the typical application of starter bars in construction pile cap from reinforced concrete (RC) pile and spun pile. (4 marks)
	(c)	As an engineer, safety is the first priority in any construction activity. Evaluate the safety measure for construction excavation work that is more than three (3) metre depth.
		(5 marks)

(d) List and illustrate with diagram the construction sequences for column. (10 marks)

