



UNIVERSITI TUN HUSSEIN ONN MALAYSIA

**FINAL EXAMINATION
SEMESTER II
SESSION 2016/2017**

COURSE NAME	: CONSTRUCTION ENGINEERING TECHNOLOGY AND MANAGEMENT
COURSE CODE	: BNP 21103
PROGRAMME	: BNA/BNB/BNC
EXAMINATION DATE	: JUNE 2017
DURATION	: 3 HOURS
INSTRUCTION	: ANSWER ALL QUESTIONS

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

- Q1**
- (a) Explain in detail Role of Stakeholder below:
 - (i) Client
 - (ii) Consultant
 - (iii) Project management Consultant

(9 marks)

 - (b) Discuss what is Construction Cycle? By aid of diagram, sketch the cycle of construction.

(6 Marks)

 - (c) Classify in detail, **THREE (3)** item that should be prepared during Preliminaries stages of construction

(6 marks)

 - (d) Classify the challenges that cause cost and time overrun in the construction industry?

(4 Marks)
- Q2**
- (a) Explain in detail item below:
 - (i) Deep Foundation
 - (ii) Shallow Foundation

(6 marks)

 - (b) By aid of diagram, sketch and explain item below:
 - (i) Pad Foundation
 - (ii) Raft Foundation
 - (iii) Strip Foundation

(6 marks)

 - (c) Classified **THREE (3)** of beam, base its support

(6 marks)

 - (d) By using the Flow Chart, explain the sequence of a concrete slab at the construction site.

(7 marks)

- Q3** (a) Trust Company has obtained construction projects worth RM10 million comprising blocks of flats, terrace houses and bungalows. As a technology engineer in the company you are asked to propose an organizational chart appropriate to the project. Give your suggestions in the form of a chart with justifications for the choice of the chart.
(10 marks)
- (b) Discuss in detail the process of construction material management.
(10 marks)
- (c) State **FIVE (5)** benefits of renting plant/machinery compared to purchasing them.
(5 marks)
- Q4** (a) Explain the importance of project control in a construction project
(2 marks)
- (b) Give the comparison between planning and scheduling projects.
(10 marks)
- (c) In a residential construction project in Parit Raja, it was found that the quality of construction has been categorized as failed to meet the requirements of customers. Discuss the matter that it happened and how to prevent from recurring.
(13 marks)

- END OF QUESTION -