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UNIVERSITI TUN HUSSEIN ONN MALAYSIA

**FINAL EXAMINATION
SEMESTER I
SESSION 2015/2016**

COURSE NAME : CONSTRUCTION PROJECT
MANAGEMENT
COURSE CODE : BPD 23603
PROGRAMME : 2 BPC
EXAMINATION DATE : DECEMBER 2015/JANUARY 2016
DURATION : 3 HOURS
INSTRUCTION : ANSWER ALL QUESTIONS

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

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- Q1** Your firm has just been awarded the contract to construct shopping complex projects.

Outline materials management plan to ensure that the necessary equipment and materials arrive at the field site to support the construction activities.

(20 marks)

- Q2** A small infrastructure project consists of twelve activities. Interrelationships amongst various activities are as follows:

- Activity A is starting activity and proceeds activities B, C and D.
- Activity E depends on activities B and C
- Activity F follows activities C and D.
- Activities G and H can start as soon as activity D is completed.
- Activity I succeeds activities G, E and F.
- Activities J and K can start only when activities H and I are completed.
- Activity L is the last activity and it succeeds activities J and K.

- (a) Prepare dependency table.

(10 marks)

- (b) Prepare Arrow on Node (AON) diagram.

(10 marks)

- (c) Analyse total duration to complete the project.

(8 marks)

- (d) Demonstrate the critical path on the network.

(2 marks)

Q3 Project cost management is a process required to ensure that the project is completed within an approved budget. There are a lot of financial tools can be used by Construction Manager to evaluates and estimates the project cost performance.

- (a) Explain top-down and bottom-up estimating methods. (5 marks)
- (b) Explain **TWO (2)** advantages and disadvantages for each method. (10 marks)
- (c) Illustrate the following costs in S curve:
 - (i) Total Budget Cost (TBC) (5 marks)
 - (ii) Cumulative Budget Cost (CBC) (5 marks)
 - (iii) Total Actual Cost of a project (TAC) (5 marks)

Q4 Project termination is a process to provide the acceptance of the project including project audit work.

- (a) Prepare a project audit cycle. (5 marks)
- (b) Compare with examples of **THREE (3)** types of project termination. (15 marks)

- END OF QUESTIONS -

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