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UNIVERSITI TUN HUSSEIN ONN MALAYSIA

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

COURSE NAME : CONSTRUCTION PROCUREMENT
COURSE CODE : BPD 30703
PROGRAMME : 3 BPC
EXAMINATION DATE : DECEMBER 2014/JANUARY 2015
DURATION : 3 HOURS
INSTRUCTION : A) ANSWER ALL QUESTIONS
B) ANSWER **THREE (3)**
QUESTIONS ONLY

THIS QUESTION PAPER CONSIST OF **FOUR (4)** PAGES

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SECTION A

- Q1** Indah Permai Property is a private client for a construction of mixed-development project (residential, shops, hotel, and recreation centre) in Kuantan, Pahang. From a client's perspective, the cost, quality, and time paradigm might be considered as being the highest quality, at the lowest cost, in the shortest time. Unfortunately this is not always possible and a compromise has to be sought, based on the client's priorities. These criteria can be visualised as an iron triangle (as shown in Figure Q1).

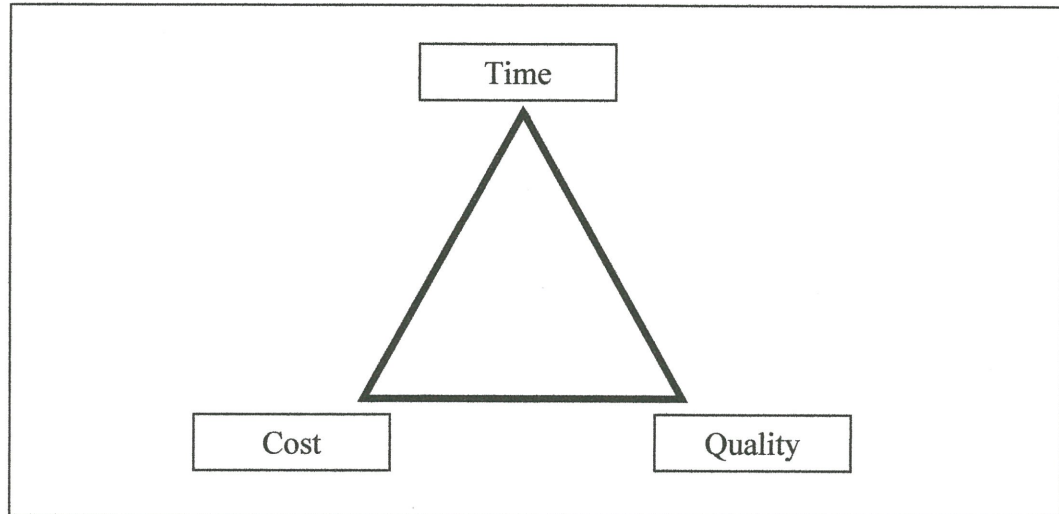


Figure Q1: Iron Triangle

According to this scenario:

- (a) Explain **FIVE (5)** reasons the importance of iron triangle to the client. (10 marks)
- (b) Discuss **FIVE (5)** key roles of client in achieving project's objectives (time, cost and quality). (10 marks)
- (c) Propose the best procurement strategies to the client based on iron triangle. (20 marks)

SECTION B

Q2 Alma Strategy Sdn. Bhd. is a G7 contractor based in Kuala Lumpur. This company was chosen by Sphere Holding Corporation (Developer) to construct and complete two towers of condominium project in Shah Alam, Selangor by using design and build system. Mr. Qasbi from UAE is a new procurement manager of Alma Strategy Sdn. Bhd. who has no experience in this system and he needs for further explanation based on Table Q2 as shown below.

Table Q2: Work Programme of design and build

Processes	Duration (Month)																	
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18
• Employer's requirements	■	■																
• Tender Period/ Contractor's proposals			■	■	■	■	■											
• Select Contractor								■										
• Construction									■	■	■	■	■	■	■	■	■	■

(a) Explain to Mr. Qasbi the processes of design and build system. (10 marks)

(b) Outline **FIVE (5)** challenges of design and build system. (10 marks)

Q3 Partnering is a management approach that focuses on promoting and creating positive working relationship among members of the organisations and it also encourages teamwork as well as avoiding dispute. The partnering methodology tries to improve current procurement system by changing the traditional adversarial relationship to a more co-operative, team-based work relationship, and getting project members thinking in a 'win-win' frame of mind. For all parties to win, it is necessary for projects to be completed on time, within budget, in accordance with the documents, and with few problems as possible.

(a) Describe **FIVE (5)** situations of adopting partnering. (10 marks)

(b) Outline **FIVE (5)** risks in partnering as one of the innovative procurement systems in Malaysia. (10 marks)

Q4 Management oriented procurement system is designed on the integration of management and both design and construction. Two methods namely management contracting and construction management are developed to speed up the process from commencement to completion.

- (a) Discuss **FIVE (5)** differences in terms of advantages of these methods.
(10 marks)
- (b) Analyse a diagram of the contractual and functional relationships exist in the construction management.
(10 marks)

Q5 The conventional procurement system is also known as design-bid-build (DBB) system. In this system, the employer accepts that design work generally separate from construction, consultants are appointed for design and cost control, and the contractor is responsible for carrying out the works. One of the unique characteristics of this system is it follows a strictly sequential path. As a client, you are required to advice your consultant as follows:

- (a) Describe **FIVE (5)** roles of consultant in conventional procurement system.
(10 marks)
- (b) Outline **FIVE (5)** critical success factors of project briefing in conventional procurement system.
(10 marks)

-END OF QUESTION -