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UNIVERSITI TUN HUSSEIN ONN MALAYSIA

**FINAL EXAMINATION
SEMESTER I
SESSION 2018/2019**

COURSE NAME : CONSTRUCTION PROCUREMENT
COURSE CODE : BPD 24703/ BPD 30703
PROGRAMME CODE : BPC
EXAMINATION DATE : DECEMBER 2018/ JANUARY 2019
DURATION : 3 HOURS
INSTRUCTION : A) ANSWER ALL QUESTIONS
B) ANSWER **THREE (3)**
QUESTIONS ONLY

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

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TERBUKA

SECTION A

Q1 The Iron Triangle is also called as the Triple Constraint and Project Triangle which is a model of the constraints of project management. The quality of work is constrained by the project's budget, deadlines and scope (specification). Permana Bina Sdn. Bhd. is a main contractor (Grade 7) has been awarded a sustainable mixed-development project which comprises of residential, hotels and recreation centre in Samarahan, Sarawak. From contractor's perspective, it might be considered as being the highest quality, at the lowest cost, in the shortest time. These criteria can be visualised as an iron triangle differently according to type of procurement method used as shown in **Figure Q1**.

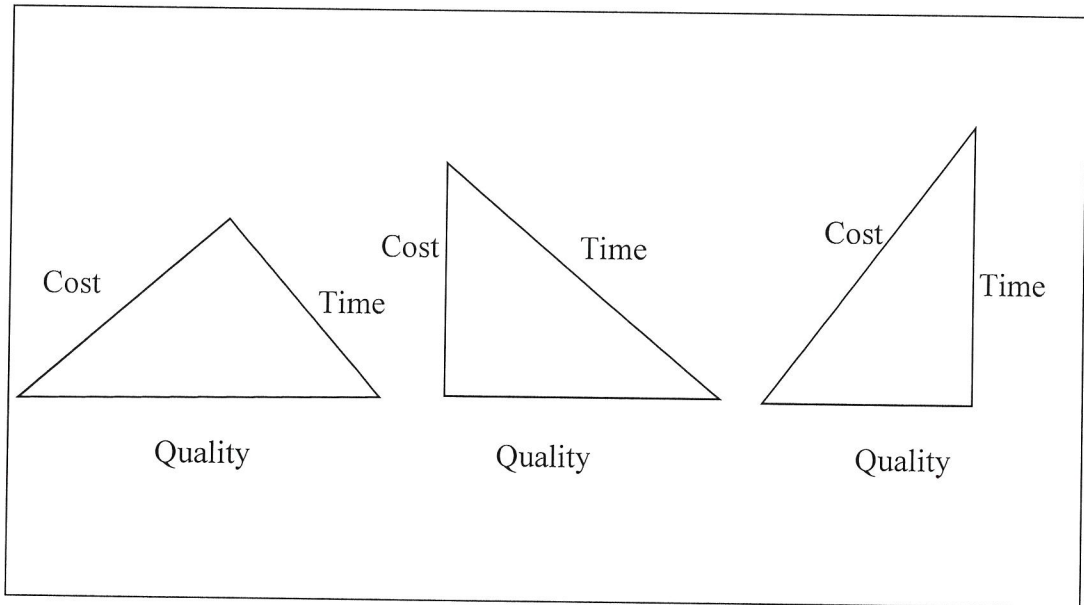


Figure Q1: Iron Triangle

According to these scenario:

- (a) Explain **FIVE (5)** significance of iron triangle to the client. (10 marks)
- (b) Relate **TWO (2)** key roles of main contractor in achieving project's objectives in terms of cost. (10 marks)
- (c) Propose the best procurement strategies to the client based on iron triangle. (20 marks)

SECTION B

Q2 The design and build system is also known as an intergrated procurement system. One of the unique characteristics of the system is that it follows a strictly single responsibility path. As a project manager, you are required to advice your client on making the appropriate procurement system for his project:

(a) Describe design and build procurement system. (5 marks)

(b) Analyse **TWO (2)** factors that influence to client satisfaction by using the system. (15 marks)

Q3 Joint Venture (JV) 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. Rentak Bina Sdn. Bhd. and Tunas Warisan Sdn. Bhd plan to use this approach in order to improve current procurement system by more co-operative, 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 based on time, within budget, and in accordance with the document contract.

(a) Explain **FIVE (5)** advantages of adopting JV. (10 marks)

(b) Outline **TWO (2)** risks that will be faced by these companies through Joint Venture system. (10 marks)

Q4 Budiman Project Management is a company that integrates management and both design and construction. This company applies two methods namely management contracting and construction management in delivering projects to speed up the process from commencement to completion.

(a) Discuss **FIVE (5)** advantages of these methods. (10 marks)

(b) Analyse with the aid of a diagram of the contractual and functional relationships that exist in the construction management. (10 marks)

Q5 Separated procurement system is also known as design-bid-build (DBB) system. In this system, the client accepts that design work generally separate from construction, consultants are appointed for design and cost control, and the contractor is responsible for undertaking the works. As a client (government), you are required to advice your consultant as follows:

(a) Describe **FIVE (5)** roles of architect (appointed by client) in separated procurement system.

(10 marks)

(b) Relate **TWO (2)** critical success factors of project briefing for separated procurement system.

(10 marks)

-END OF QUESTIONS-