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UNIVERSITI TUN HUSSEIN ONN MALAYSIA

**FINAL EXAMINATION
SEMESTER I
SESSION 2017/2018**

COURSE NAME : CONSTRUCTION PROJECT
MANAGEMENT

COURSE CODE : BPD 23603/BPD 34803

PROGRAMME CODE : BPC

EXAMINATION DATE : DECEMBER 2017/JANUARY 2018

DURATION : 3 HOURS

INSTRUCTION : ANSWER ALL QUESTIONS

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

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Q1 Describe the contents of a design work package as follows:

(a) Work Breakdown Structure (WBS) (5 marks)

(b) Responsibility Assignment Matrix (RAM) (5 marks)

Q2 The purpose of a design proposal is to develop a budget and schedule for preparing the design of a project.

Explain **TWO (2)** activities for the process of:

(a) Budgeting (5 marks)

(b) Scheduling (5 marks)

Q3 The project planning approach can be thought of as determining what is going to be done, how, where and by whom. In scheduling, this information is needed in order to determine “when”. Scheduling is a conversion of a project action plan into an operating timetable.

(a) Discuss **FOUR (4)** objectives of scheduling. (8 marks)

(b) Program Evaluation and Review Technique (PERT) is the most common approach in project scheduling which use the network technique.

Draw the network format for:

(i) Activity-on-Node (AON) (2 marks)

(ii) Activity-on-Arrow (AOA) (2 marks)

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- (c) **Table Q3(c)** shows the precedence diagram for bungalow renovation.

Table Q3(c): Precedence diagram for Bungalow Renovation Project

Activity	Duration (days)	Predecessors
A	4	-
B	4	A
C	4	B
D	2	C
E	6	A
F	6	C,E
G	6	E
H	4	F,G

Based on **Table Q3**:

- (i) Define the critical path. (3 marks)
- (ii) Calculate the total of duration of this project. (8 marks)
- (iii) Identify the critical path based on question **Q3c(ii)**. (2 marks)

- Q4** The construction phase is important because the quality of the completed project is highly dependent on the workmanship and management of construction.

Explain the important factors that can greatly contribute to a successful project during the construction phase.

(15 marks)

- Q5** As a project manager there is a fatal accident on your construction site project.

Analyse the way to tackle the situation by considering the Occupational Safety and Health Act (OSHA), the company's management, the local media and the insurance company. Make your own assumption if needed.

(20 marks)

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- Q6** Project manager conducts a post construction project evaluation meeting with all the project team members to review the project performance, problems faced and issues in the project and conflicts.

Analyse **FIVE (5)** common issues that highlighted by project manager in post construction project evaluation.

(20 marks)

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- END OF QUESTIONS -