

UNIVERSITI TUN HUSSEIN ONN MALAYSIA

FINAL EXAMINATION SEMESTER I SESI 2016/2017 TERBUKA

COURSE NAME

: CONSTRUCTION PROJECT

MANAGEMENT

COURSE CODE

: BPD 23603

PROGRAMME CODE : BPC

EXAMINATION DATE : DECEMBER 2016 / JANUARY 2017

DURATION

: 3 HOURS

INSTRUCTION

: ANSWER ALL QUESTIONS

THIS QUESTION PAPER CONSISTS OF FOUR (4) PAGES

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Q1 Table Q1 shows project activities for a single storey house.

Table Q1: Project Activities

Activities	Duration (Day)	Predecessor
A	4	_
В	5	A
С	5	В
D	4	С
Е	3	A
F	6	C, E
G	8	Е
Н	7	F, G

(a) Sketch a Precedence Network Diagram based on **Table Q1**.

(16 marks)

- (b) Based on Precedence Network Diagram in Q1(a):
 - (i) Define the critical path.

(ii) Calculate the total duration of this project.

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(2 marks)

(2 marks)

- Q2 A project audit provides an opportunity to uncover the issues, concerns and challenges encountered in the execution of a project. It affords the project manager, project sponsor and project team an interim view of what has gone well and what needs to be improved with the project to successfully complete it.
 - (a) Describe **TWO** (2) types of project audit.

(6 marks)

(b) Outline the post project evaluation processes in a project audit.

(14 marks)

Q3 (a) Differentiate between the bottom-up and top-down approaches in project budgeting process.

(10 marks)

(b) Table Q3 illustrates project performance at the end of week 8.

Table Q3: Project Performance at the End of Week 8

Activities	Planned	Actual	Weeks		Percentage of
	Cost	Cost	Start	Finish	Completion
	(RM)	(RM)			(%)
A	4,000	4,000	1	1	100
В	7,000	7,949	1	2	100
С	8,000	8,010	2	3	95
D	6,550	7,030	3	4	80
Е	12,000	10,050	4	7	75
F	8,400	9,000	7	8	70
G	3,000	2,000	8	8	30
Н	7,500	_	8	10	-
I	2,300	-	9	9	-
J	6,000	_	9	10	-
K	1,500	-	10	10	_

Based on **Table Q3**:

(i) Calculate Schedule Performance Index (SPI) and Cost Performance Index (CPI) at the end of week 8.

(10 marks)

(ii) Sketch S-curve for the project.

(14 marks)



- Q4 (a) Describe with aid of sketches, TWO (2) resource management methods in a project management. (10 marks)
 - (b) Figure Q4 shows a typical cost and staffing level across generic project life cycle structure.

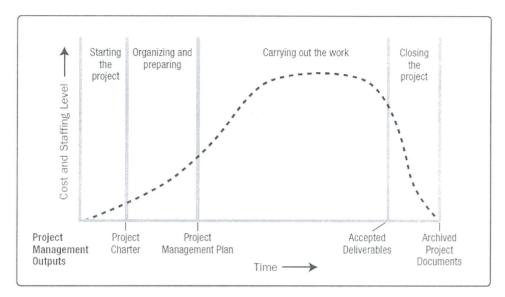


Figure Q4: Cost and Staffing Level Across Project Life Cycle

Outline how the cost and staffing level across project life cycle can greatly influence the performance of a project.



-END OF QUESTIONS-