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UNIVERSITI TUN HUSSEIN ONN MALAYSIA

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

COURSE NAME : PROJECT MANAGEMENT
COURSE CODE : BIT 30403
PROGRAMME : 3 BIT
EXAMINATION DATE : JUNE 2015 / JULY 2015
DURATION : 3 HOURS
INSTRUCTION : A) ANSWER ALL QUESTIONS
B) PLEASE WRITE YOUR
ANSWERS IN THIS
QUESTION BOOKLET

THIS QUESTION PAPER CONSISTS OF **TWELVE (12)** PAGES

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Q1 Questions **Q1(a)**-**Q1(c)** are based on Table 1.

Table 1: Costing

Items	Cost (RM)
Cost to build prototype	RM 100,000.00
Probability of customer accepting final product	
• With prototype	70%
• Without prototype	40%
Cost of rework of final product	
• With prototype	RM 20,000.00
• Without prototype	RM 200,000.00

- (a) Construct a quantitative risk analysis by using a decision tree and Expected Monetary Value (EMV) technique.

(10 marks)

Answer:

- (b) What can be concluded from the answer in **Q1(a)**?

(3 marks)

Answer:

- (c) What can you suggest to the top management on cost of prototype development using the answer in Q1(b)?

(3 marks)

Answer:

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Q2 Questions **Q2(a)**-**Q2(c)** are based on Table 2. The table shows an e-voting project with activities A, B, C, D, E, F, G, H and I.

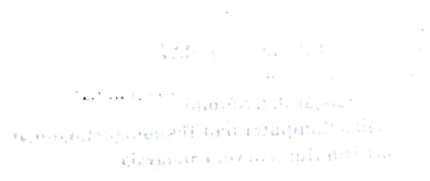
Table 2: Activities in e-voting project

Activity ID	Depend on	Duration (Days)	Number of workers
A	-	2	2
B	A	8	4
C	A	6	8
D	A	4	6
E	A	4	4
F	B	12	2
G	C, D	4	6
H	C, D, E	6	9
I	F, G, H	2	2

(a) Draw a resource usage histogram.

(9 marks)

Answer:



- (b) Based on the answer in **Q2(a)**, level the number of resource required through the project.

(9 marks)

Answer:

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- (c) The answers in **Q2(a)** and **Q2(b)** signify a difference. Justify the difference.

(5 marks)

Answer:

Q3 Questions **Q3(a)** and **Q3(b)** are based on Figure **Q3**.

You are developing four modules for a system. You estimate each module has same difficulty, labour costs, and completion time. You also estimate that the project will take 4 months. The budget of RM 4,000 includes contingency reserve. At the end of 3 months, you are asked to prepare an Earned Value calculation in order to determine how the project progress. You determine at the end of month 3, total costs incurred are RM 3,500 and 70 percent of the project is completed.

FIGURE Q3

- (a) Calculate:

- (i) Earned value

(2 marks)

Answer:

- (ii) Planned value

(2 marks)

Answer:

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(iii) Cost variance

(2 marks)

Answer:

(iv) Schedule variance

(2 marks)

Answer:

(v) Cost Performance Index

(2 marks)

Answer:

(vi) Schedule Performance Index

(2 marks)

Answer:

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(b) Conclude the answer in **Q3(a)** in term of:

(i) Time (2 marks)

Answer:

(ii) Cost (2 marks)

Answer:

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Q4 Questions **Q4(a)-Q4(c)** are based on Table 3. The table shows all the task of planning a tele-health project.

Table 3: Task of a tele-health project

Task	Description	Duration	Type	Dependent on
A	High level analysis	1 Week	Sequential	–
B	Selection of hardware platform	1 day	Sequential	A
C	Installation and commissioning of hardware	2 Weeks	Parallel	B
D	Detailed analysis of core modules	2 Weeks	Sequential	B
E	Detailed analysis of supporting modules	2 Weeks	Sequential	D
F	Programming of core modules	2 Weeks	Sequential	D
G	Programming of supporting modules	3 Weeks	Sequential	E
H	Quality assurance of core modules	1 Week	Sequential	F
I	Quality assurance of supporting modules	1 Week	Sequential	G
J	Core modules training	1 day	Parallel	C, H
K	Development and QA of accounting reporting	1 Week	Parallel	E
L	Development and QA of management reporting	1 Week	Parallel	E
M	Development of Management Information System	1 Week	Sequential	L
N	Detailed training	1 Week	Sequential	I, J, K, M

- (a) Create a network diagram for Table 3.

(8 marks)

Answer:

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- (b) Based on the answer in **Q4(a)**, identify the critical path. Give **ONE (1)** reason.

(2 marks)

Answer:

- (c) Using Figure **Q4** and answer in **Q4(a)**, assume the start date of the project is 1st June 2014 and all day are working days. Determine the early start date, late start date, early finish date, late finish date, and slack/float for each task.

(35 marks)

Answer:

TASK	Early Start Date	Late Start Date	Early Finish Date	Late Finish Date	Slack/Float
A					
B					
C					
D					
E					
F					
G					
H					
I					
J					
K					
L					
M					
N					

-END OF QUESTIONS-

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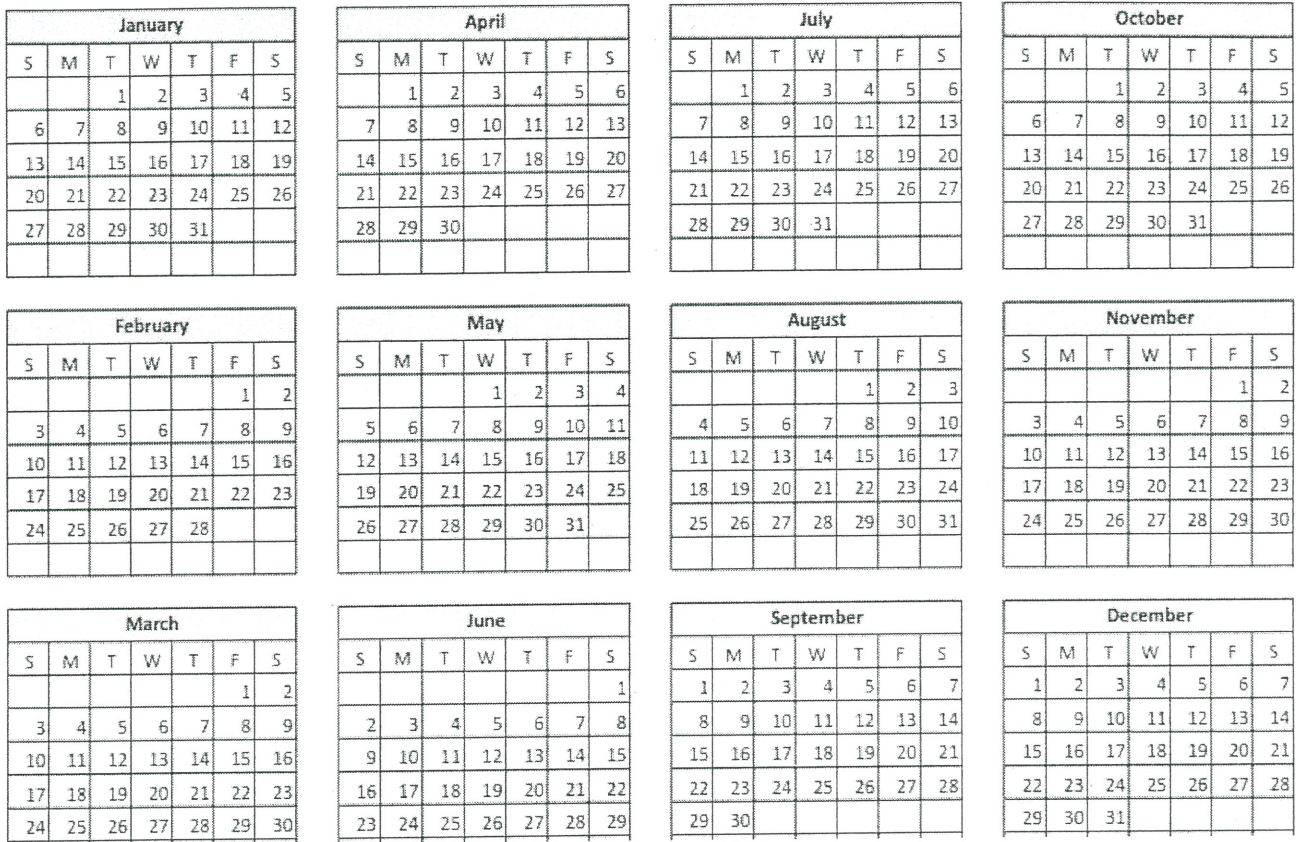


FIGURE Q4