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**UNIVERSITI TUN HUSSEIN ONN MALAYSIA**

**FINAL EXAMINATION  
SEMESTER I  
SESSION 2021/2022**

COURSE NAME : MULTIMEDIA PROJECT  
MANAGEMENT  
COURSE CODE : BIM 30703  
PROGRAMME CODE : BIM  
EXAMINATION DATE : JANUARY / FEBRUARY 2022  
DURATION : 3 HOURS  
INSTRUCTION : 1. ANSWER ALL QUESTIONS  
2. THIS FINAL EXAMINATION IS  
CONDUCTED ONLINE AND  
CLOSE BOOK

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

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**Q1** Questions **Q1(a)** – **Q1(b)** are based on the given scenario:

As a Project Manager for a mobile application development project, one of the phases has the following activities: design site map, design wireframe, create style guide and write code. Besides Project Manager, other people involved in the project are Analyst, Designer, Front End Developer, and Back End Developer.

(a) Create a RACI chart for the project. (6 marks)

(b) Describe a situation in which it would be appropriate for the Project Manager to create a RACI chart. (8 marks)

**Q2** Given the following information for a two year project:

Planned Value (PV) = RM420,000  
Earned Value (EV) = RM300,000  
Actual Cost (AC) = RM450,000  
Budget at Completion (BAC) = RM850,000

(a) Calculate the cost variance (CV), schedule variance (SV), cost performance index (CPI) and schedule performance index (SPI) for the project. (8 marks)

(b) What can you conclude from the results in **Q2(a)**? (4 marks)

(c) By using CPI value in **Q2(a)**, calculate the estimate at completion (EAC) cost for the project. (2 marks)

(d) What can you conclude from the result in **Q2(c)**? (4 marks)

**Q3 Questions Q3(a) – Q3(h) are based on the given scenario:**

Your team has been assigned to develop a mobile application with the following activities in **Table Q3**:

**TABLE Q3**

Activity	Immediate Predecessor	Estimated Duration (days)
<b>A. PLANNING</b>		
a. Brainstorming	-	1
b. Application idea checklist	a	3
c. Hardware requirement analysis	b	6
d. Software requirement analysis	b	5
e. Content analysis	c, d	9
f. Proposal writing	d, e	2
<b>B. ANALYSIS AND DESIGN</b>		
g. Navigation analysis	f	4
h. Object analysis	g	3
i. Application structure analysis	h	3
j. Flowchart design	i	2
k. Navigation design	h	2
l. Storyboard design	j, k	3
m. Character modelling	l	5
n. Interface design	m	4
o. Speech recognition configuration	m	5
p. Application database design	m	1
<b>C. DEVELOPMENT</b>		
q. Gesture translation	n, o, p	5
r. Application integration	q	10
<b>D. TESTING</b>		
s. Usability testing	r	4
t. Functionality testing	r	2
<b>E. Documentation</b>		
F. Project Compilation	a	63
G. Project Submission	s, t, E	3
	F	0 (milestone)

(a) Create a Gantt Chart using Microsoft Project or GanttProject. Assume that you can start the project in any date in February 2022 and that off days are on Friday and Saturday.

(40 marks)

(b) Sketch the Activity-on-arrow (AOA) network diagram.

(5 marks)

(c) Which tasks are on the critical path? Give your justification.

(4 marks)

- (d) State any **FIVE (5)** possible paths (with its duration) other than the path stated in answer Q3(c).  
(5 marks)
- (e) Analyze the effect (if any) on the completion time of the project based on the following condition:
- (i) Task n is delayed by 10 days.
  - (ii) Task g is delayed by 3 days.
- (6 marks)
- (f) Identify **TWO (2)** examples of Start-to-Finish (SF) task dependency.  
(2 marks)
- (g) Discuss **ONE (1)** possible solution to shorten the period of project completion. Give your justification.  
(4 marks)
- (h) Suggest **TWO (2)** more milestones that can be included in the project.  
(2 marks)

- END OF QUESTIONS -