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UNIVERSITI TUN HUSSEIN ONN MALAYSIA

**FINAL EXAMINATION
(ONLINE)
SEMESTER I
SESSION 2020/2021**

COURSE NAME : MULTIMEDIA PROJECT
MANAGEMENT
COURSE CODE : BIM 30703
PROGRAMME CODE : BIM
EXAMINATION DATE : JANUARY/ FEBRUARY 2021
DURATION : 3 HOURS
INSTRUCTION : 1. ANSWER ALL QUESTIONS.
2. PLEASE MAKE SURE TO
CLICK "SAVE ANSWER"
BUTTON.

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THIS QUESTION PAPER CONSISTS OF **THREE (3)** PAGES

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

You have been assigned to develop a mobile application with the following activities in Table Q1:

TABLE Q1

| Activity | Immediate Predecessor | Estimated Duration (days) |
|-------------------------------------|-----------------------|---------------------------|
| A. Brainstorming | - | 1 |
| B. Application idea checklist | A | 2 |
| C. Hardware requirement analysis | B | 5 |
| D. Software requirement analysis | B | 3 |
| E. Content analysis | C, D | 4 |
| F. Proposal writing | D, E | 2 |
| G. Proposal presentation | F | 1 |
| H. Navigation analysis | G | 3 |
| I. Object analysis | H | 3 |
| J. Application structure analysis | H, I | 2 |
| K. Flowchart design | H | 2 |
| L. Navigation design | H | 3 |
| M. Storyboard design | K | 3 |
| N. Character modelling | I | 4 |
| O. Interface design | J, L, M, N | 5 |
| P. Characters integration | O | 5 |
| Q. Speech recognition configuration | P | 3 |
| R. Application database design | P | 2 |
| S. Gesture Translation | P | 4 |
| T. Usability testing | Q, S | 2 |
| U. Functionality testing | R, S | 3 |
| V. Revise Documentation | B | 35 |
| W. Project submission | T, U, V | 0 (milestone) |

- (a) Assuming you can start the project in any date, create its Gantt Chart using any Project Management tool. (45 marks)
- (b) Sketch the Activity-on-node (AON) 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 **Q1(c)**. (10 marks)
- (e) Analyze the effect (if any) on the completion time of the project based on the following condition:
 - (i) Task S is delayed by 10 days.

- (ii) Task W is delayed by 3 days. (6 marks)

- (f) Identify **TWO (2)** examples of Start-to-Start (SS) task dependencies. (4 marks)
- (g) Discuss **ONE (1)** possible solution to shorten the period of project completion. Give your justification. (4 marks)
- (h) Suggest **ONE (1)** more milestone that can be included in the project. (2 marks)

Q2 Questions Q2(a) – Q2(d) are based on the given information of expenditures for a project in **Table Q2**.

TABLE Q2

| Activity | Date | Budgeted Amount |
|--------------------|-----------------------------|-----------------|
| Build forms | 1 June 2021 | RM10,000 |
| Pour foundation | 1 June 2021 | RM50,000 |
| | 1 July 2021 | RM100,000 |
| Frame walls | 1 July 2021 | RM30,000 |
| | 1 August 2021 | RM30,000 |
| Remaining activity | 1 September 2021 and beyond | RM500,000 |

- (a) Calculate budgeted cost baseline. Draw a graph for illustration. (8 marks)
- (b) Calculate Budget at Completion (BAC). (4 marks)
- (c) As of 1 July 2021, calculate the Planned Value. (4 marks)
- (d) Calculate the Earned Value (EV) as of 1 July 2021 if the foundation work is only two thirds complete. Assume that everything else is on schedule. (4 marks)

- END OF QUESTION -

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