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**UNIVERSITI TUN HUSSEIN ONN  
MALAYSIA**

**FINAL EXAMINATION  
SEMESTER I  
SESSION 2019/2020**

COURSE NAME : MULTIMEDIA PROJECT  
MANAGEMENT  
COURSE CODE : BIM 30703  
PROGRAMME CODE : BIM  
EXAMINATION DATE : DECEMBER 2019 / JANUARY 2020  
DURATION : 3 HOURS  
INSTRUCTION : ANSWER ALL QUESTIONS

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

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**Q1** Define the following term:

- (a) RACI chart (2 marks)
- (b) Net present value analysis (2 marks)
- (c) Milestones (2 marks)
- (d) Return on Investment (2 marks)
- (e) Payback analysis (2 marks)

**Q2** In project time management, activity sequencing is crucial in order to have a well-organized project planning.

- (a) Define activity sequencing in project time management. (2 marks)
- (b) List **THREE (3)** categories of dependency in activity sequencing. (2 marks)
- (c) Explain Start-to-start (SS) and Start-to-finish (SF) task dependencies by using appropriate diagrams. (5 marks)

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

Your team has been asked to develop, test and document enhancements to a Augmented Reality Learning application. The tasks and dependencies are as follows:

- A. Create a testing plan for 3 days.  
Once the testing plan is ready, your team can:
- B. Test the user interfaces for 10 days
- C. Test the database for 6 days
- D. Test the network for 7 days
- E. Write the documentation first draft for 20 days  
When the user interface tests are complete, you can:
- F. Perform user interface testing—enlist some users to test the user interface for 5 days  
When the database and network testing are complete, you can:
- G. Perform integration testing—network with the database for 3 days  
When the user testing of the user interface and the database testing are complete, you can:
- H. Perform integration testing—database, network, and user interface for 2 days  
When all integration testing and user testing are complete, you can:
- I. Perform system testing for 8 days  
Then you can:
- J. Review and revise documentation for 4 days  
After all other tasks are complete, you can:
- K. Obtain management approval for 5 days

- (a) Produce **ONE (1)** Work Breakdown Structure (WBS) with task relationship table. Your table must have Activity label, Description, Immediate predecessor and Estimated duration columns. (15 marks)
- (b) Create the network diagram. (10 marks)
- (c) State all possible paths (with its duration). (15 marks)
- (d) Based on answer in **Q3 (c)**, which tasks are on the critical path? Give your justification. (4 marks)
- (e) Analyze the effect (if any) on the completion time of the project based on the following condition:
  - (i) Task G is delayed by 10 days.
  - (ii) Task E is delayed by 2 days. (6 marks)

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- (f) Identify **TWO (2)** example of Finish-to-Start (FS) task dependencies.  
(6 marks)
- (g) As a developer, explain **TWO (2)** risks that the team might be facing in completing the project?  
(4 marks)
- (h) Explain **ONE (1)** possible solution for any risk mentioned in **Q3(g)**.  
(2 marks)

**Q4** Given the following information for a one-year project, answer the following questions.

Planned Value (PV) = RM23,000  
Earned Value (EV) = RM20,000  
Actual Cost (AC) = RM25,000  
Budget at Completion (BAC) = RM120,000

- (a) What is the cost variance, schedule variance, cost performance index (CPI), and schedule performance index (SPI) for the project?  
(8 marks)
- (b) Is the project ahead of schedule or behind schedule? Justify your answer.  
(5 marks)
- (c) Is the project under budget or over budget? Justify your answer.  
(5 marks)

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- END OF QUESTION -