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UNIVERSITI TUN HUSSEIN ONN MALAYSIA

**FINAL EXAMINATION
SEMESTER II
SESSION 2023/2024**

- COURSE NAME : CONSTRUCTION PROJECT
MANAGEMENT
- COURSE CODE : BPE 23602
- PROGRAMME CODE : BPD
- EXAMINATION DATE : JULY 2024
- DURATION : 2 HOURS
- INSTRUCTION : 1. ANSWER ALL QUESTIONS
2. THIS FINAL EXAMINATION IS
CONDUCTED VIA
 Open book
 Closed book
3. STUDENTS ARE **PROHIBITED** TO
CONSULT THEIR OWN MATERIAL
OR ANY EXTERNAL RESOURCES
DURING THE EXAMINATION
CONDUCTED VIA CLOSED BOOK

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

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- Q1** Overall project planning is an important requirement for successful construction project management.
- (a) Differentiate between planning and scheduling. (6 marks)
 - (b) Discuss **THREE (3)** important reasons of project scheduling from the project owner's perspective. (9 marks)
 - (c) Discuss **FIVE (5)** methods by which the rate of project progress can be improved. (10 marks)
- Q2**
- (a) Discuss the **THREE (3)** variances of an earned value (EV) chart by highlighting their importance. (9 marks)
 - (b) A small community hall building was under construction with a scheduled completion of 8 months and a planned cost of RM300,000. The recorded actual cost in the 6th month is RM250,000 with a completed value of RM205,000.
 - (i) Compute the Schedule and Cost Variances. (8 marks)
 - (ii) Determine the Cost and Schedule Performance Indexes. (8 marks)
- Q3** In relation to construction project monitoring,
- (a) Discuss with examples **TWO (2)** categories of main costs besides direct cost. (10 marks)
 - (b) Explain how a Time-Cost Trade-off technique works by providing an appropriate example. (10 marks)
 - (c) Name **FIVE (5)** areas where the source of problems related to quality can be identified. (5 marks)

Q4 A bungalow project with a cost of RM80,000 and a 10-month construction period is now in its 5th month progress evaluation. The financial s-curve of the work is shown in **Figure Q4**.

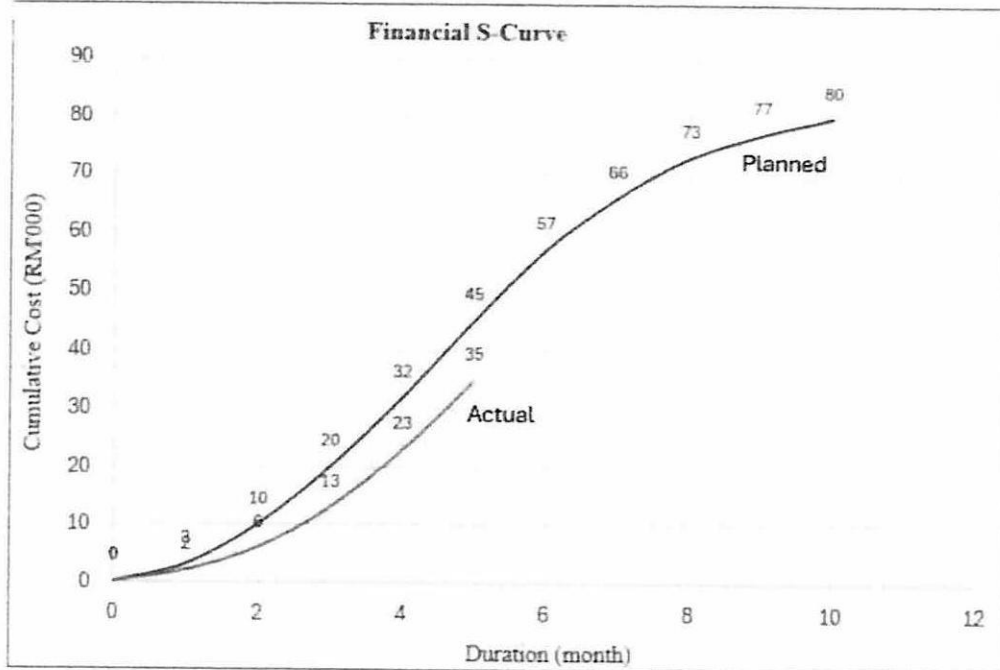


Figure Q4: Project financial s-curve

- (a) Determine the percentage of project variance between the scheduled and actual cost spent as shown. (5 marks)
- (b) Suggest what the project manager should look at with the current project status as indicated in its 5th month. (10 marks)
- (c) Discuss, in view of its current progress, whether the project would be completed as planned. (10 marks)

-END OF QUESTIONS-

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