

**CONFIDENTIAL**



**UNIVERSITI TUN HUSSEIN ONN MALAYSIA**

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

COURSE NAME : CONSTRUCTION PROJECT  
MANAGEMENT

COURSE CODE : BPE 23602

PROGRAMME CODE : BPD

EXAMINATION DATE : JULY 2022

DURATION : 2 HOURS

INSTRUCTION : 1. ANSWER ALL QUESTIONS.  
2. THIS FINAL EXAMINATION IS  
CONDUCTED VIA **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**

**CONFIDENTIAL**

**TERBUKA**

- Q1** Discuss the following in relation to construction project management.
- (a) A situation in which it warrants a Variation Order (VO). (5 marks)
  - (b) The impact of Variation Order (VO) on project cost and time. (10 marks)
  - (c) The situation in which Liquidated Ascertained Damages (LAD) will be claimed. (5 marks)
  - (d) The time when the Performance Bond could be redeemed. (5 marks)
- Q2**
- (a) Describe the **THREE (3)** variances of an Earned Value Management (EVM) by highlighting their significance. (9 marks)
  - (b) A small bungalow project was planned for completion in 12-month duration with a planned cost of RM450,000. The recorded actual cost in month 8 is RM350,000 with a completed value of RM300,000.
    - (i) Compute the Schedule and Cost Variances. (8 marks)
    - (ii) Determine the Cost and Schedule Performance Indexes. (8 marks)
- Q3**
- (a) Discuss the **THREE (3)** categories of main costs in the aspect of cost control. (12 marks)
  - (b) Explain how project cost baseline is determined. (3 marks)
  - (c) Explain how Time-Cost Trade-off technique works. (10 marks)

- Q4.** (a) A project progress report has shown that as of 15 June 2022, the S-Curve of cost and time is showing an actual progress of 60 percent against 70 percent program schedule. That generally indicates the project is having some clues of underlying problems.

Discuss the possible problems from the perspectives of the following;

- (i) Performance
- (ii) Time
- (iii) Cost

(15 marks)

- (b) Discuss briefly **FIVE (5)** ways by which the rate of project progress can be improved.

(10 marks)

**-END OF QUESTIONS-**