

CONFIDENTIAL



UTHM
Universiti Tun Hussein Onn Malaysia

UNIVERSITI TUN HUSSEIN ONN MALAYSIA

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

COURSE NAME : CONSTRUCTION PROJECT
MANAGEMENT

COURSE CODE : BPE 44402

PROGRAMME : BPD

EXAMINATION DATE : DECEMBER 2019/ JANUARY 2020

DURATION : 2 HOURS

INSTRUCTION : ANSWER ALL QUESTIONS

TERBUKA

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

CONFIDENTIAL

CONFIDENTIAL

Q1 In relation to construction project management;

- (a) Differentiate between Certificate of Practical Completion and Certificate of Making Good Defects.
(8 marks)
- (b) Discuss on the release of Retention Sums to the contractor upon issuance of certificates mentioned in **Q1(a)** above.
(8 marks)
- (c) Discuss the purpose of Performance Bond in construction projects.
(9 marks)

Q2 During the excavation for the construction of building foundation, the contractor has discovered a layer of hard material (rock) at a particular location.

- (a) Explain what immediate course of action to be taken by the contractor due to the above problem.
(5 marks)
- (b) Relate the problem above with issuance of Variation Order (VO) and Extension of Time (EOT).
(10 marks)
- (c) Spots of hard rock were also found at some other footing locations and estimated to have caused 15-day delay to the overall progress of work.

Analyse possible effect on the project completion date and on Liquidated Ascertained Damages (LAD).
(10 marks)

Q3 Project scheduling is part of planning that indicates what needs to be done to successfully complete a project.

- (a) Discuss **FIVE (5)** important reasons for scheduling from the contractor's point of view.
(15 marks)
- (b) Explain what is meant by a logical relationship between two activities.
(5 marks)

CONFIDENTIAL

(c) Differentiate between Free Float and Total Float.

(5 marks)

Q4 The financial s-curve of a building project is shown in **Figure Q4**. The curve on the top is the scheduled work progress while the one below is the actual work progress. The original contract sum is RM77 millions and the original contract period is 11 months.

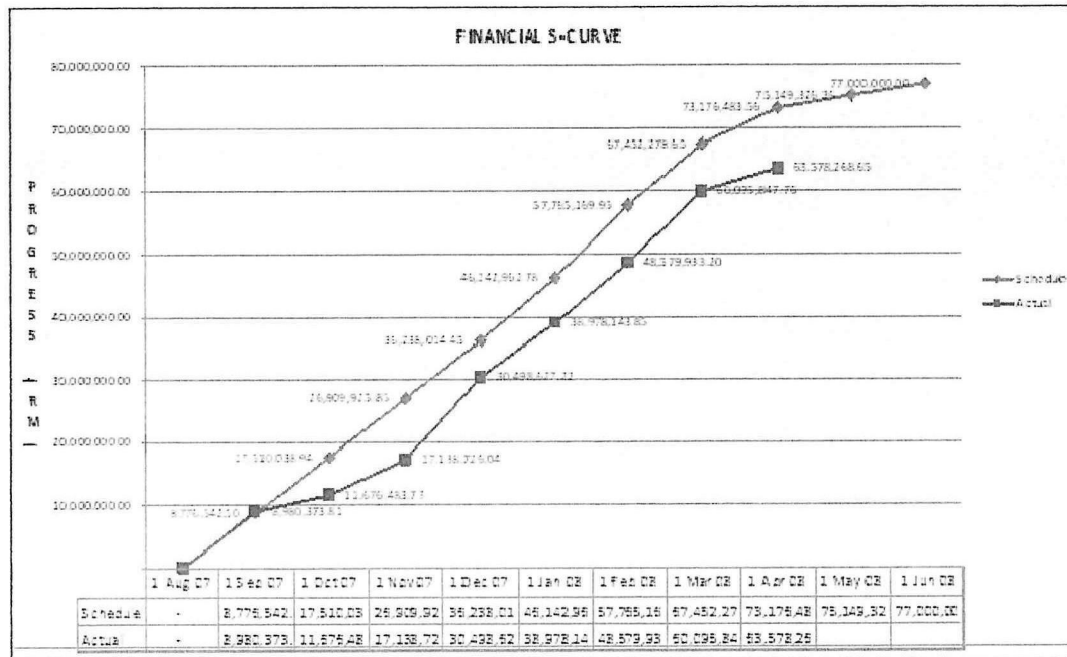


Figure Q4: Financial s-curve of a building project

(a) Estimate the weekly average (financial) of project delay as at progress payment dated 1 February 2008.

(5 marks)

(b) As shown by the curve, there has been a continuous delay starting October 2007 to April 2008.

Predict, with reason(s), whether the actual progress will be able to meet the original contract completion date.

(10 marks)

(c) Suggest what should have been done to reduce the delay from the time it was first detected.

(10 marks)

- END OF QUESTIONS -

TERBUKA