

FINAL

ALTERNATIVE ASSESSMENT

(COVER PAGE)

Session : April 2020

Programme : Diploma In Quantity Surveying (DQS)

Course : EGK1118 : Construction Technology 1

Date of Examination : August 7, 2020 (Friday)

Time : 4:00 pm – 6:30 pm Reading Time : Nil

Duration : 2 hours 30 mins

Special Instructions :

Answer ALL FOUR (4) questions.

Material permitted :

Nil

Materials provided :

Nil

Examiner(s) : Farah Nasiha Suhaila & Marshitah Abdullah Bayanoeddin

Chief Moderator : Ahmad Mustaqim Bin Ahmad Anwar Merican

DIPLOMA IN QUANTITY SURVEYING PROGRAMME (DQS)
EGK1118: CONSTRUCTION TECHNOLOGY 1
FINAL ALTERNATIVE ASSESSMENT: APRIL 2020 SESSION

Instructions: This paper consists of **FOUR (4)** questions. Answer **ALL** questions. Each question carries 25 marks.

Question 1

The traditional construction process in the Malaysian construction industry is divided into pre-contract and post contract. By using a table, compare **FOUR (4)** roles of the architect, civil engineer and quantity surveyor at the pre-contract stages and post-contract stages.

(25 marks)

Question 2

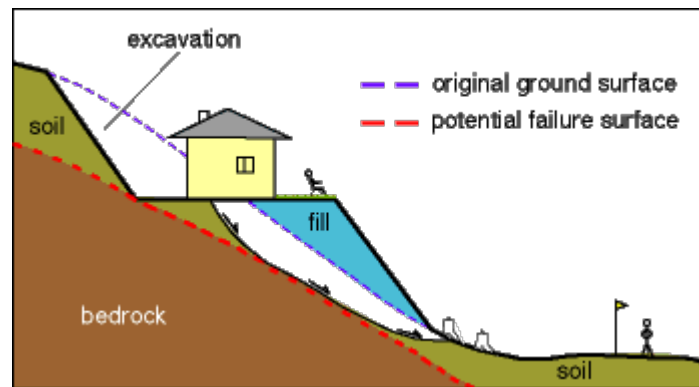


Figure 1.0

Figure 1.0 shows a site handover to a contractor for double-story house construction. Describe all site planning and earthworks process which should be conducted before piling works commence in the construction site.

(25 marks)

Question 3



Ms.Hajar is planning to construct a 3-Storey bungalow residential house on a hilly area in Bukit Antarabangsa, Kuala Lumpur. The proposed site is well known for its history of landslide cases and high water table. The overall height of both slopes is 4 meters. As a project manager, advice Ms.Hajar on the following matter:

- (a) List **FIVE (5)** factors that the engineers need to take into consideration while designing for the slope protection and ground treatment. (5 marks)
- (b) Propose the most suitable type of retaining wall for the project and justify your proposal with necessary sketches and explanation. (10 marks)
- (c) What are the advantages/disadvantages of the proposed method? (10 marks)

Question 4

- (a) Explain **FIVE (5)** advantages of concrete hollow blocks work over brickworks. (10 Marks)
- (b) The application and adoption of Industrialized Building System (IBS) in Malaysian construction industry particularly in the private sector, is still relatively low compared to the developed countries. Explain the advantages of the system that can be beneficial to the industry. (15 marks)

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