



**UNIVERSITI TUN HUSSEIN ONN MALAYSIA**

**FINAL EXAMINATION  
SEMESTER II  
SESSION 2011/2012**

**COURSE NAME** : OCCUPATIONAL SAFETY AND HEALTH  
**COURSE CODE** : BFC 4111  
**PROGRAMME** : BFF  
**EXAMINATION DATE** : JUNE 2012  
**DURATION** : 1 HOUR AND 30 MINUTES  
**INSTRUCTION** : ANSWER TWO (2) QUESTIONS ONLY

THIS QUESTION PAPER CONSISTS OF SIX (6) PAGES

- Q1** (a) Explain briefly **THREE (3)** regulations on occupational safety and health as stated in Act 514. (15 marks)
- (b) As a Civil Engineer, explain in detail **THREE (3)** reasons why construction safety is important to us. (10 marks)
- Q2** As a Safety and Health Officer in your workplace, you are responsible for various aspects of safe work environment. You have to identify several important issues which must be address effectively.
- (a) What is meant by 'near miss'? (2 Marks)
- (b) What are the differences between 'hazard' and 'risk' ?. (6 marks)
- (c) Describe with examples **THREE (3)** basic steps that should be taken to ensure a safety & healthy at workplace. (10 marks)
- (d) Briefly explain the hierarchy and the risk control measurement. (7 marks)
- Q3** **Figure Q3** shows the scaffolding collapsed at construction site. To ensure work activities being carried out safely and healthy, potential hazards need to be identified, assessed and controlled. Based on **Figure Q3**, develop HIRARC to ensure the potential hazard during scaffolding works is as low as reasonable and practicable (ALARP). (25 marks)
- Q4** Based on **Figure Q4**, interpret and discuss, **FIVE (5)** types of physical, chemical and biological hazard that occurred during the accident. (25 marks)

**TERJEMAHAN BAHASA MALAYSIA**

- S1** (a) Terangkan secara ringkas **TIGA (3)** peraturan yang terdapat dalam Akta Keselamatan dan Kesihatan Pekerjaan (Akta 514).  
(15 markah)
- (b) Sebagai seorang jurutera, terangkan dengan jelas **TIGA (3)** perkara mengapa keselamatan dalam pembinaan begitu penting.  
(10 markah)
- S2** Sebagai seorang Pegawai Keselamatan dan Kesihatan Pekerjaan di tempat kerja, adalah menjadi tanggungjawab anda memastikan keselamatan persekitaran tempat kerja. Anda telah mengenalpasti beberapa isu penting yang harus diberi perhatian:
- (a) Apakah yang dimaksudkan "kejadian nyaris".  
(2 markah)
- (b) Nyatakan perbezaan antara hazard dan risiko?  
(6 markah)
- (c) Huraikan **TIGA (3)** perkara asas yang perlu diambil dalam memastikan keselamatan dan kesihatan di tempat kerja.  
(10 markah)
- (d) Terangkan secara ringkas hirarki dalam kaedah mengawal risiko.  
(7 markah)
- S3** **Rajah S3** menunjukkan kegagalan perancah di tapak bina. Bagi memastikan aktiviti-aktiviti pembinaan dapat dijalankan secara selamat dan sihat, segala jenis hazard perlu dikenalpasti, di nilai serta di kawal. Berdasarkan kepada **rajah 3**, bangunkan HIRARC bagi memastikan bahaya penggunaan perancah dapat dikurangkan secara praktikal (ALARP).  
(25 markah)

**S4** Berdasarkan kepada **rajah 4**, terangkan dan bincangkan **LIMA (5)** jenis hazard fizikal, kimia dan biologi yang berlaku semasa kejadian tersebut.

(25 markah)

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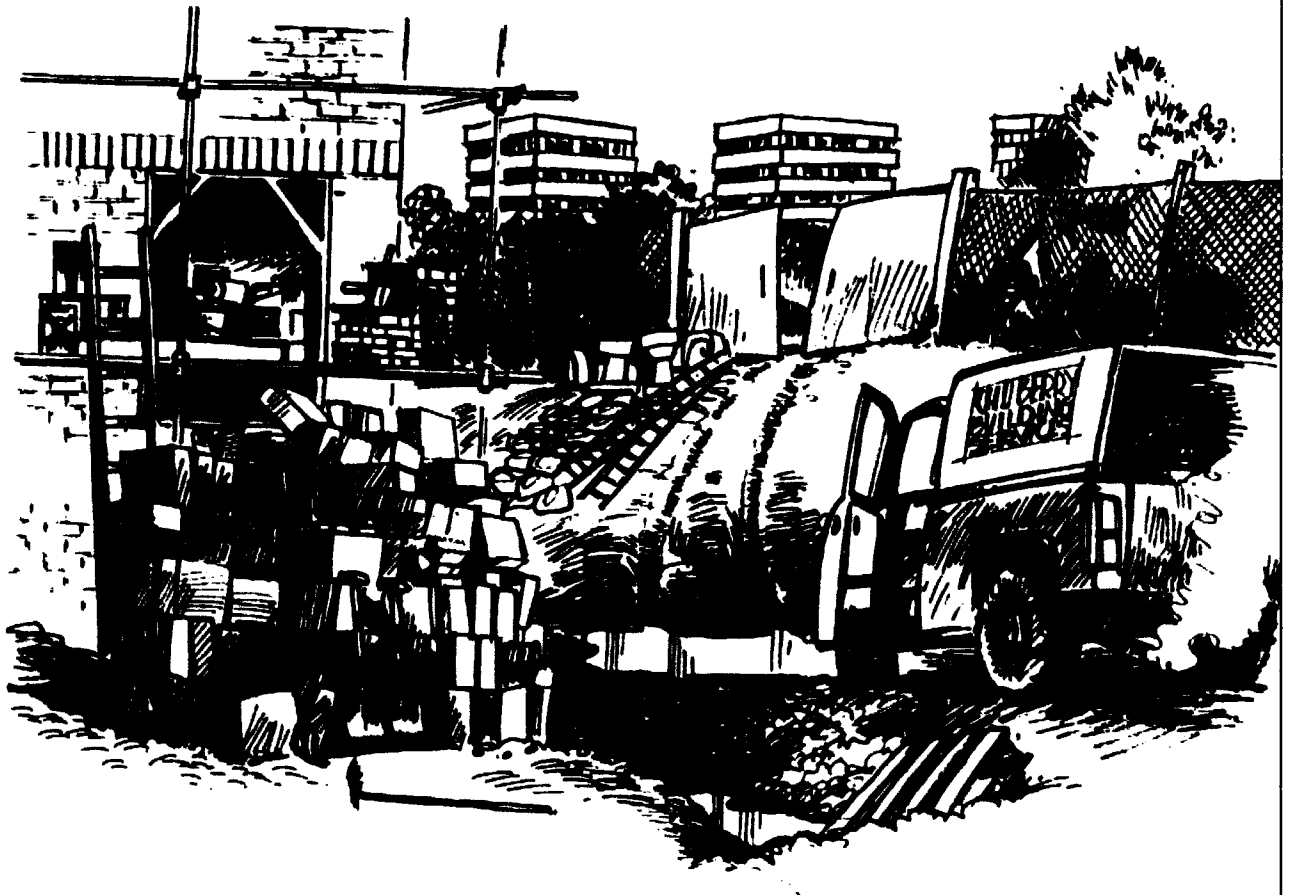


**Figure Q3: Scaffolding Collapsed at Construction Site**

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**Figure Q4: Accident**