



UNIVERSITI TUN HUSSEIN ONN MALAYSIA

**FINAL EXAMINATION
SEMESTER I
SESSION 2016/2017**

COURSE NAME : OCCUPATIONAL SAFETY AND
HELATH

COURSE CODE : BNQ 20302 / BNP 20402

PROGRAM : BNA/BNB/ BNC/ BNN

EXAMINATION DATE : DISEMBER 2016 / JANUARY 2017

DURATION : 2 HOURS

INSTRUCTION : ANSWER **FOUR (4)** QUESTION
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THIS QUESTION PAPER CONTAINS **FIVE (5)** PAGES

- Q1.** (a) In a risk assessment process, there has guideline under DOSH Malaysia called HIRARC. Interpret the HIRARC based on :-
- (i) Hazard Identification
 - (ii) Risk Assessment
 - (iii) Risk Control
- (10 marks)
- (b) Illustrate the Risk Matriks Table based on HIRARC Guidelines 2008 establish by DOSH. Elaborate the information regarding :-
- (i) Matriks 5 x 5
 - (ii) Likelihood and severity
 - (iii) Risk Estimation
 - (iv) Colour
- (15 marks)
- Q2.** (a) Explain the terms in detail :-
- (i) Physical Injury
 - (ii) Economic Argument
 - (iii) Humanitarian Argument
- (10 marks)
- (b) NADOOPOD is a regulation under the OSHA 1994. Summarize the NADOOPOD and its function under the law.
- (3 marks)
- (c) Explain briefly **THREE (3)** regulations on occupational safety and health as stated in Act 51
- (6 marks)
- (d) As a Engineer Technologist, explain in detail **Three (3)** reasons why safety important to us.
- (6 marks)

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- Q3** (a) List **THREE (3)** Occupational Safety and Health Act Regulations which are related in the employment industries.
(3 marks)
- (b) Compare the duties of employer, employee and manufacturer.
(8 marks)
- (c) Develop safety and health policy for civil engineering technology laboratory.
(14 marks)
- Q4** (a) List down **FIVE (5)** types of machineries that are included under Factories and Machinery (person in charge) regulations, 1970.
(5 marks)
- (b) As the Safety and Health Officer for a construction company, you are assigned to coordinate the investigation of a serious accident. A day after the accident, you visited the location and have the opportunity to look around and meet with people who were present at the time. To achieve a high standard of health and safety, prepare an accident or incident report according to OSHA 1994 or DOSH requirements based on the scenario given (**FIGURE 4**)
(20 marks)
- Q5.** (a) List **FIVE (5)** the classification of hazard and given the example each of the hazard.
(5 marks)
- (b) **FIGURE Q5** shows the manual and mechanical handling at construction site. To ensure work activities being carried out safely and healthily, potential hazards need to be identified, assessed and controlled. Based on **FIGURE Q5**, develop HIRARC to ensure the hazard during manual and mechanical handling are as low as reasonable and practicable (ALARP).
(20 marks)

- END OF QUESTIONS -

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ANTARA mangsa kejadian lif terhempas di Pangsapuri Persiaran Tanjung, Tampoi, Johor Bahru diberi rawatan kecemasan oleh anggota Jabatan Pertahanan Awam (JPA3) semalam. — Gambar SAIFUL NIZAM BAHARI

Seorang maut, 14 cedera lif terhempas dari tingkat tujuh

Oleh WAN HASNAN HASAN

JOHOR BAHRU 1 Julai — Seorang buruh binaan terbunuh manakala 14 pekerja lain cedera setelah lif yang mereka naiki untuk memulakan kerja di pangsapuri sedang dalam pembinaan di Persiaran Tanjung, Tampoi di sini, terjatuh setelah kabelnya terputus pagi ini.

Ketua Polis Daerah Johor Bahru Selatan, Senior Asisten Komisioner II Hashim Mohd. Yusof berkata, mangsa yang terbunuh dikenali sebagai Paidi, 40, warga Indonesia.

Menurutnya, kejadian dipercayai berlaku ketika semua pekerja terbahit bersedia untuk memulakan kerja di beberapa bahagian bangunan tersebut kira-kira pukul 8.15 pagi.

“Bagaimanapun ketika lif yang dipasang pada bahagian tepi bangunan tersebut berhenti di tingkat tujuh untuk menurunkan tiga pekerja, kabel lif tiba-tiba terputus lalu terhempas ke tanah,” katanya kepada *Utusan Malaysia* ketika dihubungi.

Difahamkan, lif itu kebiasaannya hanya mampu memuatkan tidak lebih 10 orang sahaja.

Paidi yang berada dalam lif berkenaan mati serta-merta setelah mengalami kecederaan teruk di kepala akibat hentakan kuat.

Sepuluh pekerja yang turut berada di dalam lif berkenaan cedera parah manakala empat lagi cedera ringan.

Semua mangsa warga Indonesia itu dikejarkan ke Hospital Sultanah Aminah (HSA).

Pangsapuri itu mula dibina sejak April 2002 dan ia dijangka siap Oktober ini. Seramai 120 pekerja bertugas di kawasan pembinaan pangsapuri setinggi 16 tingkat yang bakal menyediakan sebanyak 134 unit kediaman.

FIGURE 4

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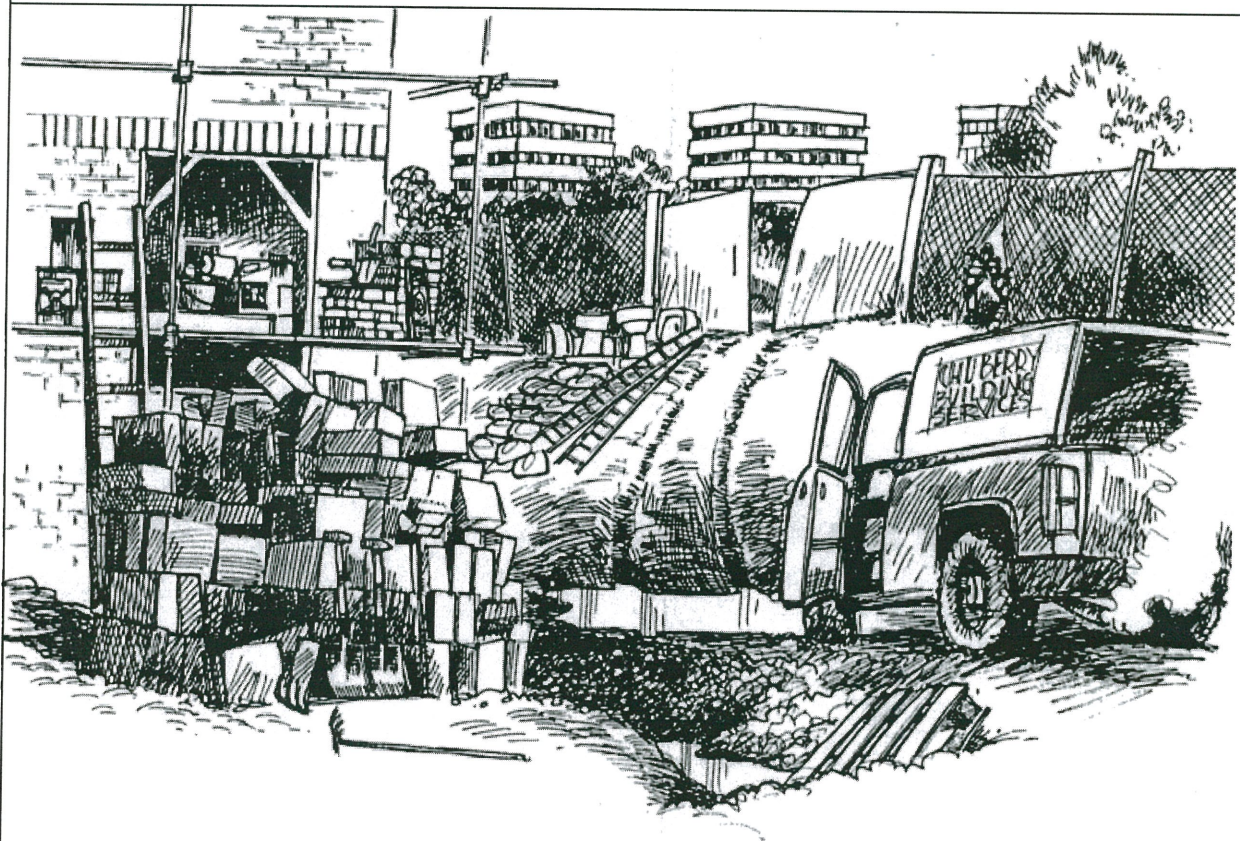


FIGURE 5

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