



UNIVERSITI TUN HUSSEIN ONN MALAYSIA

FINAL EXAMINATION

SEMESTER I

SESSION 2013/2014

SUBJECT NAME : OCCUPATIONAL SAFETY AND HEALTH

SUBJECT CODE : BNQ 20502/BNP 20402

COURSE : 2 BNN/2 BNB

EXAMINATION DATE : DISEMBER 2013/JANUARY 2014

DURATION : 2 ½ HOUR

INSTRUCTION : ANSWER FIVE (5) QUESTIONS ONLY

THIS PAPER CONSISTS OF FIVE (5) PAGES

- Q1.** HIRARC is a Hazard identification, risk assessment and risk control.
- (a) Define what is meant by hazard, risk and danger. (5 marks)
 - (b) Discuss the various methods of identifying hazards at workplace? (5 marks)
 - (c) Explain the hierarchy of the control measures. (5 marks)
 - (d) Explain briefly **five (5)** general groups of hazard. (5 marks)
- Q2.**
- (a) In your own words explain what is meant by “practicable” in accordance to the Occupational Safety and Health Act 1994. (10 marks)
 - (b) What is the objectives and rationale of Occupational Safety and Health Act 1994? (10 marks)
- Q3.** As a Safety and Health Officer for a construction company, you are required to outline the measures that you will take to prevent the occurrence of accidents due to the following causes:
- (a) slides and cave-ins earth, stones /sand (5 marks)
 - (b) struck by falling object during handling (5 marks)
 - (c) contact with electricity. (5 marks)
 - (d) collapsing of building, walls or staircase. (5 marks)
- Q4.**
- (a) What are the **three (3)** separate branches of the law of tort? (6 marks)
 - (b) Under the Occupational Safety and Health Act 1994, what is meant by the following term listed below?
 - i- Occupier
 - ii- Place of work
 - iii- Plant



iv- Premises

(4 marks)

(c) What is the main **two (2)** objective of the Factories and Machinery Act 1967?

(4 marks)

(d) List down the machinery that includes under Factories and Machinery (person in charge) regulations, 1970.

(6 marks)

Q5. 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 5**)

(20 marks)

Q6. **Figure Q6** 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 Q6**, develop HIRARC to ensure the hazard during manual and mechanical handling are as low as reasonable and practicable (ALARP).

(20 marks)

- END OF QUESTION -

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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 Paldi, 40, warga Indonesia.

Menurutnya, kejadian dipercayai berlaku ketika semua pekerja terbabit 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.

Paldi 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 5

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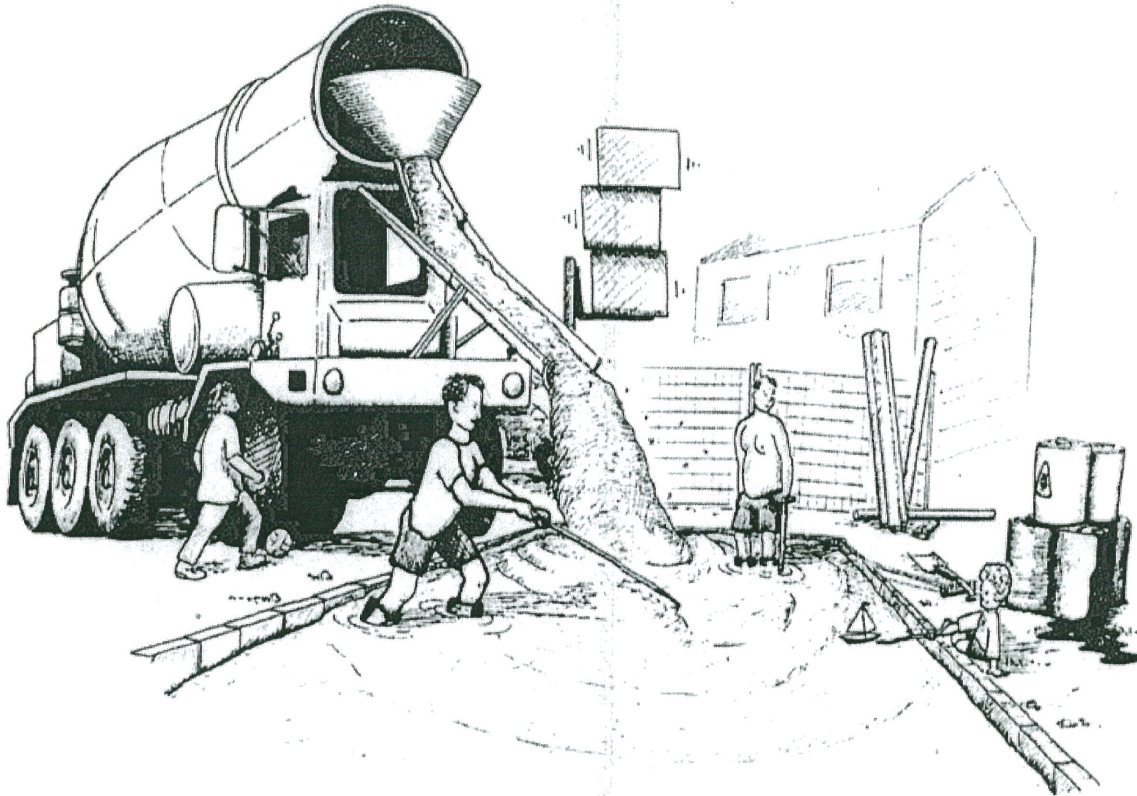


FIGURE 6

