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UNIVERSITI TUN HUSSEIN ONN MALAYSIA

**FINAL EXAMINATION
SEMESTER II
SESSION 2014/2015**

COURSE NAME : OCCUPATIONAL SAFETY AND HEALTH
COURSE CODE : BNR 22502
PROGRAMME : 2 BNM / 1BNL
EXAMINATION DATE : JUNE 2015 / JULY 2015
DURATION : 2 HOURS
INSTRUCTION : ANSWER FOUR (4) QUESTIONS ONLY

THIS QUESTION PAPER CONSISTS OF ELEVEN (11) PAGES

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- Q1** (a) List **THREE (3)** Factory Machinery Act regulation which related in wood based industries.
(9 marks)
- (b) Based on OSHA Part IV Section 15(2), describes **THREE (3)** general duties of employers and self-employed persons to their employees.
(6 marks)
- (c) Develop safety and health policies for electrical or mechanical engineering laboratory.
(10 marks)
- Q2** (a) Determine the differences between hazard identification, risk assessment and risk control in table form.
(10 marks)
- (b) Based on textile technology laboratory in UTHM, identify **THREE (3)** hazards and complete the **Table Q2 (b)**.
(15 marks)

Table Q2(b) : HIRARC Form

HIRARC Form		HIRARC FORM		APPENDIX C					
Premises :		Conducted by:							
Process / Location		(Name , designation)							
Approved by :		Date : (tofrom)							
(Position)		Conducted date :		Reviem date :					
Date									
Hazard Identification			Risk Analysis						
Bill	Activity	Hazard	Effect / Cause	Risk control	Likelihood	Severity	Risk	Recommended Control	Due Date / Status
1									
2									
3									
4									
5									
6									

- Q3 (a)** There were numerous major industrial accidents that have contributed significantly to the evolution of occupational safety and health. Lesson learnt from those incidents have initiated more stringent precautionary and preventive measures. Determine the implication and contributing factors of each tragedy as listed in **Table Q3 (a)**.

(10 marks)

Table Q3 (a): Major Industrial Accidents

No	Tragedy	Implications	Contributing Factors
1	Bhopal Tragedy		
2	Bright Sparkles		
3	Highland Tower		
4	Chernobyl Disasters		
5	Piper Alpha Tragedy		

- (b) From electrical accident based on **Figure Q3(b)** please complete the **Table Q3(b)** HIRARC.

(15 marks)

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Figure Q3(b) : Hand injury

Table Q3 (b) : HIRARC Form

HIRARC Form		HIRARC FORM		APPENDIX C					
Premises :		Conducted by: (Name , designation)		Review date :					
Process / Location		Date : (tofrom)							
Approved by : (Position)		Conducted date :							
Date									
Hazard Identification			Risk Analysis						
Bill	Activity	Hazard	Effect / Cause	Risk control	Likelihood	Severity	Risk	Recommended Control	Due Date / Status
1									
2									
3									
4									
5									
6									

Q4 (a) Explain **FIVE (5)** classification of hazard with an example each of the hazard.

(10 marks)

(b) Describe in detail the technique to reduce the occupational disease and occupational poisoning based on the DOSH reported data as tabulated in **Table Q4 (b)**.

Table Q4 (b). Total Number of Investigation Cases of Occupational Diseases and Poisoning from 2005 to 2009

No.	Types of Disease	2005	2006	2007	2008	2009
1	Occupational Lung disease (OLD)	51	38	50	56	57
2	Occupational Skin Disease (OSD)	57	30	192	70	53
3	Occupational Noise Hearing Loss (NIHL)	190	106	120	169	427

(15 marks)

Q5 (a) There has an accident which involves fatality case in a work place. One of the staff was doing welding process and suddenly the Argon tank exploded. Develop and discuss **THREE (3)** techniques to investigate.

(10 marks)

(b) In other department, the local exhaust ventilation was off because the fan was not functioning. Chemical content in the room has spread out to the whole room. One of your staff has collapse after inhaling Benzene. Analyze the case and fill the report forms JKKP 6 and JKKP 7.

(15 marks)

- **END OF QUESTION** -

**JKKP 6 - REPORT FOR OCCUPATIONAL ACCIDENT/ DANGEROUS OCCURRENCE
OCCUPATIONAL SAFETY AND HEALTH (NOTIFICATION OF ACCIDENT, DANGEROUS OCCURRENCE,
OCCUPATIONAL POISONING AND OCCUPATIONAL DISEASE) REGULATIONS 2004**

Part A - Detail of Notifier

Notifier - Regulation 5(1)&(2) Employer

Name

Designation

Name & Address of Organisation

R.O.C. No. JKKP Reg. No.

Contact person (If different from above)

Contact No.

Industrial Classification Code (Table 3)

Part B - Affected person

(If more than one person please use separate form)

Name

Date of Birth

NRIC/Passport No.

Nationality Gender M / F

Occupation

Name & Address of Organisation

Location of incident

Date and time of incident

Date of first informing DOSH

Part C - Description of accident or dangerous occurrence

Please describe what happened before, during and after the incident.

Signature of Notifier

Date

Disclaimer

Completing this form does not constitute to an admission of liability of any kind by the person making the report or by any other person(s).

**JKKP 7 - REPORT FOR OCCUPATIONAL POISONING/OCCUPATIONAL DISEASE
OCCUPATIONAL SAFETY AND HEALTH (NOTIFICATION OF ACCIDENT, DANGEROUS OCCURRENCE,
OCCUPATIONAL POISONING AND OCCUPATIONAL DISEASE) REGULATION 2004**

Part A1

Notifier - Regulation 7(1) Employer

Name

Designation

Name & Address of Organisation

Contact number

R.O.C. No. JKKP Reg. No.

Industrial Classification Code (Table 3)

Contact person (If different from above)

Part A2

Notifier - Regulation 7(2) Registered Medical Practitioner

Name

Designation

Address of Clinic/Hospital

Contact number

Part B - Affected Person

Name

Date of Birth

NRIC/Passport No.

Nationality Gender M / F

Occupation

Name & Address of Organisation

Location of incident

Part C - Occupational Poisoning/Disease

Diagnosis/Provisional Diagnosis

Date of Diagnosis

Name & Address of Attending Doctor

Part D

Description of work that led to occupational poisoning/disease (Please describe any work done by the affected person which might have led to them getting the disease. If the disease is thought to have been caused by exposure to an agent at work, e.g. a specific chemical - please state what that agent is.)

Signature of Notifier

Date

Disclaimer

Completing this form does not constitute to an admission of liability of any kind by the person making the report or by any other person(s).