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UNIVERSITI TUN HUSSEIN ONN MALAYSIA

FINAL EXAMINATION SEMESTER II SESSION 2021/2022

COURSE NAME

OCCUPATIONAL SAFETY & HEALTH

COURSE CODE

BPA 32202

PROGRAMME CODE :

BPD

EXAMINATION DATE :

JULY 2022

DURATION

2 HOURS

INSTRUCTION

1. ANSWER ALL QUESTIONS

2.THIS FINAL EXAMINATION IS AN **ONLINE** ASSESSMENT AND CONDUCTED VIA **CLOSED BOOK.**

3.STUDENTS ARE **PROHIBITED** TO CONSULT THEIR OWN MATERIAL OR ANY EXTERNAL RESOURCES DURING THE EXAMINATION CONDUCTED VIA CLOSED BOOK

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- Q1 (a) Define the following terms:
 - (i) Hazard

(1 mark)

(ii) Acute effect

(1 mark)

(iii) Chronic effect

(1 mark)

(b) Explain SIX (6) elements in the hierarchy of risk control.

(12 marks)

(c) (i) Identify with example **THREE** (3) hazard categories that might be encountered by food delivery riders while working.

(6 marks)

(ii) Suggest **TWO** (2) preventive measures to overcome the risk by hazards based on the answer in **Q1(c)(i)** that could be taken by the management/employer to reduce the risk.

(8 marks)

Q2 The risk of injuries can occur if employees expose to various types of hazards while working. By observing the Figure Q2:



Figure Q2: Employees carry out their work tasks at workshop area

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(a) Determine the potential hazard related to the activity.

(1 mark)

(b) State TWO (2) examples of health effects associated with the hazard based on the answer in Q2(a).

(2 marks)

(c) Elaborate **FOUR (4)** methods of identifying the above occupational hazard.

(12 marks)

(d) Prepare **FOUR** (4) preventive measures to prevent the above occupational hazard based on the hierarchy of risk control.

(12 marks)

Q3 In a paint manufacturing plant, workers who work in the work unit 'Primer Coating' are exposed to chemical Y with a hazard rating of 4 and exposure rating of 1. Meanwhile, those who are assigned in the work unit 'Secondary Coating' are exposed to chemical Z with a hazard rating of 3 and an exposure rating of 5.

Table Q3: Risk Matrix

		EXPOSURE RATING (ER)				
		1	2	3	4	5
HAZARD RATING	(seed	RR=1	RR=2	RR=2	RR=2	RR=3
	2	RR=2	RR=2	RR=3	RR=3	RR=4
	3	RR=2	RR=3	RR=3	RR=4	RR=4
	4	RR=2	RR=3	RR=4	Ñ RR=4	RR=5 3 ⁽³⁾ RR=5
	5	RR=3	RR=4	RR=4	RR=&®®	RR=5

(a) State the formula to calculate the risk.

(1 mark)

(b) Calculate the risk rating for both chemicals Y and Z based on the **Table Q3**.

(6 marks)

3

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(c) Propose **TWO** (2) possible control strategies for chemical hazards for each work unit as in the above scenario based on the hierarchy of control from the most effective to the least effective.

(12 marks)

- Q4 Workplace stress places significant psychological, physiological, and financial costs on both individual and organization.
 - (a) List FOUR (4) sources of workplace stress.

(4 marks)

(b) Explain **THREE** (3) methods that can be taken by an individual to reduce workplace stress.

(6 marks)

(c) Outline **FIVE** (5) strategies that can be implemented by the managers to assist their employees in managing workplace stress.

(15 marks)

- END OF QUESTIONS -

4

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