

UNIVERSITI TUN HUSSEIN ONN MALAYSIA

FINAL EXAMINATION SEMESTER II **SESSION 2018/2019**

COURSE NAME : SAFETY IN TECHNOLOGY

COURSE CODE : BNA 31103

PROGRAMME CODE : BNA

EXAMINATION DATE : JUNE/JULY 2019

DURATION

: 3 HOURS

INSTRUCTION : ANSWER ALL QUESTIONS

THIS QUESTION PAPER CONSISTS OF FOUR (4) PAGES

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Q1	(a)	UTHM is committed to providing a safe and healthful environment for all persons
		associated with the University, including faculty, staff, students and visitors.
		Define safety policy and design a Laboratory Safety and Health Policy, which
		applies to all students and staff in UTHM.

(8 marks)

(b) Name and explain THREE (3) health hazards on a chemical label in the laboratory.

(6 marks)

(c) Identify THREE (3) factors that contribute to minor/major injuries in the laboratory.

(6 marks)

(d) Demonstrate the first aid procedure when the eye has received chemical irritation while working in the laboratory.

(5 marks)

- Q2 (a) Define term:
 - (i) Hazards
 - (ii) Hazards Identification
 - (iii) Personal Protective Equipment
 - (iv) Risk Assessment
 - (v) Risk Control

(5 marks)

(b) Explain the difference between OSHA standard and OSHA regulation.

(8 marks)

(c) Describe the purpose and organization of NIOSH.

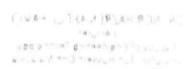
(6 marks)

(d) OSHA not only imposes duties on employers but also gives rights on employees. List **THREE** (3) responsibilities of employer according to OSHA.

(6 marks)

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Q3	(a)	Define fire safety and construct a fire safety program in the workplace.
		(12 marks)
	(b)	Explain FOUR (4) important considerations when evaluating hazards in the workplace.
		(8 marks)
	(c)	Briefly demostrate the role of the safety and health professional regarding industrial hygiene.
		(5 marks)
Q4	(a)	Figure Q5 shows an incident where a variety of hazards can be found. Describe the impacts on human and environment from this situation.
		(5 marks)
	(b)	Warnings do not prevent exposure to a hazard, but they do provide a visual or audible indicator to warn people of potential danger. Give FOUR (4) examples or

(8 marks)

(c) As health and safety representative your role is to work proactively (this means taking action before hazards become a problem) to prevent workers and public from being exposed to occupational hazards. Construct common rules for good work practices in order to prevent this situation (Figure Q5) in future.

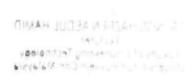
warnings that can explain the hazards in this situation (Figure Q5).

(12 marks)

- END OF QUESTIONS -

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Figure Q5: Sungai Kim Kim chemical dumping