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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)

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 demonstrate 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 of warnings that can explain the hazards in this situation (**Figure Q5**).
(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.
(12 marks)

- END OF QUESTIONS -

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Figure Q5: Sungai Kim Kim chemical dumping