



**UNIVERSITI TUN HUSSEIN ONN MALAYSIA**

**FINAL EXAMINATION  
SEMESTER II  
SESSION 2016/2017**

**COURSE NAME** : OCCUPATIONAL SAFETY AND ENVIRONMENT  
**COURSE CODE** : BPK 30702  
**PROGRAMME CODE** : BIT  
**EXAMINATION DATE** : JUNE 2017  
**DURATION** : 2 HOURS  
**INSTRUCTION** : ANSWER ALL QUESTIONS

**TERBUKA**

THIS QUESTION PAPER CONSISTS OF **THREE (3)** PAGES

# CONFIDENTIAL

BPK 30702

- Q1** (a) Emergency response is the organizing, coordinating, and directing of available resources in order to response to the event and brings the emergency under control.

Explain **THREE (3)** goals of Emergency Response Plan.

(12 marks)

- (b) Describe **SIX (6)** elements of Emergency Plan Strategy that should be implemented in an organisation.

(18 marks)

- Q2** In ABC laboratory, a risk assessment is carried out for every single experiment in order to avoid an accident. A number of steps are taken into consideration in order to assess and determine the appropriate actions to control the hazard.

- (a) Identify **FIVE (5)** types of potential hazards if the above laboratory is the one of which a chemical base.

(10 marks)

- (b) Prepare an appropriate risk assessment matrix consisting of a likelihood and severity of a chemical work procedure.

(10 marks)

- (c) Discuss **FIVE (5)** types of risk control that can be applied in a chemical work procedure.

(10 marks)

- Q3** (a) Accident investigation is carried out in order to determine the cause or causes of an accident so as to prevent future damage, injury or loss.

Discuss **FOUR (4)** initial steps in accident investigation.

(12 marks)

- (b) At near midnight, Raju was sleeping in an open area near the factory building. Specifically, the open area is at T-junction that is commonly used as a forklift path to load and unload the concrete blocks. There was poor lighting in that area. At around 11.55 p.m., a 7 ton forklift carrying 200 kilos concrete block turned into the T-junction and ran over Raju. The accident caused him succumbed serious injuries in several parts of his body. He was then brought to the hospital but died soon after he arrived at the emergency room. His colleagues reported that on the day of the accident, Raju was seen to be exhausted after working for more than 12 hours. He then felt asleep in the incident area after having his mid night supper. In the mean time, the forklift driver testified that though concrete block he was

carrying obstructed his vision, he was still driving the forklift. In addition to that, he was not familiar with the area where Raju was sleeping.

Based on the above scenario;

- (i) Explain the type of accident of the above scenario. (2 marks)
- (ii) Explain investigation team in a diagram form to investigate the above accident. (6 marks)
- (iii) Discuss **FOUR (4)** preventive measures as to prevent the similar accident from occurring in the future. (12 marks)
- (iv) Discuss **FOUR (4)** root causes of accident of the above scenario. (8 marks)

- END OF QUESTIONS -