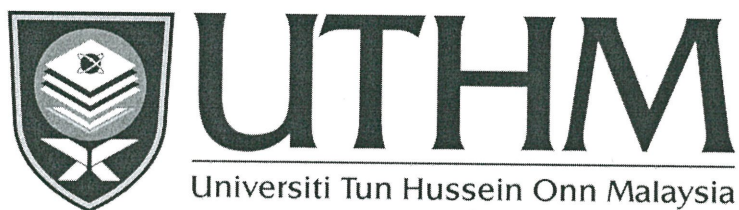


CONFIDENTIAL



UNIVERSITI TUN HUSSEIN ONN MALAYSIA

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

COURSE NAME : OCCUPATIONAL SAFETY AND HEALTH
COURSE CODE : BPA 32202
PROGRAMME : 3 BPD
EXAMINATION DATE : DECEMBER 2014/ JANUARY 2015
DURATION : 2 HOURS
INSTRUCTION : ANSWER ALL QUESTIONS

THIS QUESTION PAPER CONSISTS OF **FOUR (4)** PAGES

CONFIDENTIAL

- Q1** (a) A risk assessment is a process that is used to evaluate the likelihood and severity of the harm. The results of the risk assessment can then be used to determine whether a process of work can be performed safely as to prevent any possible accident.

Define with example of the following terms:

- (i) Hazard (4 marks)
 - (ii) Risk (4 marks)
 - (iii) Danger (4 marks)
- (b) Discuss **FOUR (4)** basic components of risk management. (8 marks)
- (c) Job Safety Analysis is used to describe how to perform and control a step-by-step task related to any hazards. Further, it can be used to educate employees on safety practices prior to utilizing equipment.
- Prepare a Job Safety Analysis (JSA) for bathroom cleaning process by using an appropriate JSA form by considering the elements of task, hazards and control. (10 marks)
- (d) Risk assessment methods may apply a qualitative and semi-quantitative risk assessment matrix to evaluate the likelihood and severity of work process.
- Compare the qualitative and semi-quantitative risk assessment respectively by using appropriate matrices. (10 marks)

Q2 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 incident 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 incident, Raju was seen to be exhausted after working 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;

- (a) Analyse **FOUR (4)** root causes of accident of the above scenario. (8 marks)
- (b) Suggest **FOUR (4)** preventive measures as to prevent the similar incident occur in the future. (8 marks)
- (c) Propose investigation team in a diagram form to investigate the above accident. (14 marks)

- Q3** (a) Emergency preparedness and response plays a vital role in ensuring that employers and workers have the necessary equipment, know where to go, and know how to keep themselves safe when an emergency occurs. The emergency itself needs to be categorised in accordance with its level as to determine the suitability of further action.

Based on the above statement;

- (i) Define emergency. (2 marks)
- (ii) Explain levels of emergencies. (6 marks)

- (b) One of the basic elements of emergency preparedness and response management is to organise emergency management team. The team may encompass of emergency coordinator, management committee and incident command organisation.

Discuss the incident command organisation which consist of operations, planning, logistics and administration.

(12 marks)

- (c) Emergency response team plays an immense role especially during major disaster and fire prevention.

Illustrate the fire drill and evacuation procedures which consist of evacuation, fire prevention as well as search and rescue team by using an appropriate flowchart.

(10 marks)

- END OF QUESTION -