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Universiti Tun Hussein Onn Malaysia

**UNIVERSITI TUN HUSSEIN ONN MALAYSIA**

**FINAL EXAMINATION  
SEMESTER I  
SESSION 2017/2018**

COURSE NAME : OCCUPATIONAL SAFETY AND HEALTH  
COURSE CODE : BPC 32503  
PROGRAMME : BPB  
EXAMINATION DATE : DECEMBER 2017 / JANUARY 2018  
DURATION : 3 HOURS  
INSTRUCTION : ANSWER ALL QUESTIONS

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

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- Q1** SINGAPORE: A fire has broken out at Tuas waste management plant on Thursday morning.

The location of the fire is 23 Tuas View Circuit - the premises of Eco Special Waste Management.

Singapore Civil Defence Force (SCDF) firefighters are currently at the site to put out the flames, using three water monitors and two Unmanned Firefighting Machines.

Tuas South Ave 3 and Tuas View Crescent are closed to facilitate operations.

The public is advised to avoid the area.

ECO is fully licensed by the National Environment Agency (NEA) as a Toxic Industrial Waste Collector, a General Waste Collector, and an Asbestos Removal Contractor, among other qualifications.

It provides services to industrial and commercial customers from industries such as petrochemical, pharmaceutical, oil and gas, power generation, electronics, marine, engineering, and semiconductor, with 2,000 customers, the company said on its website.

*(The Straits Times, 23 Feb 2017)*

Based on the incidents above, you as a safety officer at ECO plant is required to;

- (a) Outline the process of emergency preparedness and response. (20 marks)
- (b) Construct NINE (9) steps in accidents investigation (after accidents) (30 marks)
- (c) Apply the indirect costs method in this incidents. (10 marks)

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**Q2** Section 24(1c) of OSH Act 1994 states that it is the duty of employee to wear at all times any Personal Protective Equipment (PPE) provided by the company.

Analyse the main types of PPE available and the conditions under which each should be worn.

(a) Describe **FOUR (4)** main types of PPE available. (10 marks)

(b) Identify the suitable condition to use each PPE. (10 marks)

**Q3** Risk assessment is the process of evaluating the risks to safety and health arising from hazards at work.

Analyse **SIX (6)** steps in risk assessment. (20 marks)

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**- END OF QUESTIONS -**