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UNIVERSITI TUN HUSSEIN ONN MALAYSIA

**FINAL EXAMINATION
(ONLINE)
SEMESTER II
SESSION 2020/2021**

COURSE NAME : CONSTRUCTION SAFETY,
HEALTH AND ENVIRONMENT
MANAGEMENT

COURSE CODE : MPC 10703

PROGRAMME CODE : MPC

EXAMINATION DATE : JULY 2021

DURATION : 3 HOURS

INSTRUCTION : ANSWER ALL QUESTIONS
OPEN BOOK EXAMINATION

THIS QUESTION PAPER CONSISTS OF FOUR (4) PAGES

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Q1 BENTONG (THE STAR/ASIA NEWS NETWORK) - The landslide at Karak Highway was caused by an overflow of a water catchment area, not logging on a nearby hill, said the Fire and Rescue Department. Deputy Director-General (Operations) Datuk Soiman Jahid said the heavy rain over the last few days had caused the catchment to overflow, picking up sediment and mud which became a landslide. "The overflow also picked up garbage, logs and large rocks from the hill," he told the media during a briefing at the site. Mr Soiman said the Department conducted a preliminary aerial inspection to assess the soil structure and water flow. "I saw an area that had some logging, which appeared quite orderly," he said. He said there was an area where the trees had been cleared. There was also more water in the catchment area. "If it rains heavily again, there will be another overflow," he warned. Asked if the landslide was caused by the logging, Mr Soiman disagreed, saying the primary cause was the overflowing catchment. He said the department had instructed the Works Ministry and ANIH management to remove the rocks and logs spotted on the hilltop to reduce the damage, should another landslide occur. However, Pertubuhan Pelindung Khazanah Alam Malaysia (PEKA) president, Puan Seri Shariffa Sabrina Syed Akil said that she felt that the landslide was due to uncontrolled logging, according to a Bernama report on Thursday. "It is understood that the logging activities started in late October, 2013 and then the encroachers wantonly cleared more land at the Lentang Recreational Forest in the name of development," Shariffa Sabrina said. "When we knew about this, PEKA sent an official letter to the Pahang state government on Jan 20, last year, expressing our concern over possible adverse effects of the uncontrolled logging activities."

(Source: The Star 2020)

Justify all following below based on above statement:

- (i) Landslide and land cover in EIA (15 marks)

- (ii) Traffic Impact and Accident Risk Assessment in EIA. (15 marks)

Q2 KUALA LUMPUR (THE STAR/ASIA NEWS NETWORK) - Two women were crushed to death when a section of a pedestrian bridge under construction in Kuala Lumpur collapsed on Wednesday evening (March 3) and fell on the van they were in. Three other people in the van - two women and the male driver - suffered serious injuries and are being treated at a nearby facility, Hospital Universiti Kebangsaan Malaysia. The section of the bridge collapsed on the van. The four women were reported to be factory workers who were being driven to work, the authorities said. Kuala Lumpur's Traffic Investigation and Enforcement Department chief assistant commissioner Zulkefly Yahya said the lorry driver has been detained to facilitate investigations. The accident occurred at around 6pm on Wednesday when a trailer lorry carrying an excavator was believed to have hit the scaffolding of the pedestrian bridge near a major highway, the Middle Ring Road 2, in Desa Tun Razak.

(Source: The Straits Time, 2021)

As the project manager;

- (i) Analyse **THREE (3)** safety and health challenges in this project.
(15 marks)

- (ii) Propose with examples, **THREE (3)** management strategies to solve the safety issue in this project.
(15 marks)

Q3 KUALA LUMPUR: Two construction workers were crushed to death when concrete slabs on the 15th floor of a building they were working on at Jalan Dewan Sultan Sulaiman here collapsed on Thursday. The accident occurred at 2am while six employees were working on the formwork structure of the building's 15th floor. One man died on the spot, while the other was confirmed dead at the Kuala Lumpur Hospital. An immediate stop-work notice was issued after a team of officials from the Department of Occupational Safety and Health (DOSH) conducted an investigation at the accident site on Thursday. It is understood that legal action will be taken if any violation of the Occupational Safety and Health Act (1994) and Factories and Machinery Act (1967) had occurred. "It is the responsibility of employers and workers to ensure safety and health at the work place," the Human Resources Ministry said in a statement last night.

(Source: BERNAMA, 2018)

As a project manager, based on about accident:

- (i) Outline **FIVE (5)** steps in Risk Management Assessment process to solve the problem.
(10 marks)
- (ii) Analyse the incident by using FTA to avoid the tragedy in the future.
(10 marks)
- (iii) Propose **FIVE (5)** elements of OSH Management System (MS 1722:2011) to your company.
(20 marks)

-END OF QUESTIONS-