



UNIVERSITI TUN HUSSEIN ONN MALAYSIA

**FINAL EXAMINATION
SEMESTER II
SESSION 2022/2023**

- COURSE NAME : OCCUPATIONAL, SAFETY AND HEALTH
COURSE CODE : DAK 13102
PROGRAMME CODE : DAK
EXAMINATION DATE : JULY / AUGUST 2023
DURATION : 2 HOURS
INSTRUCTIONS : 1. ANSWER **ALL** QUESTIONS
2. THIS FINAL EXAMINATION IS CONDUCTED VIA **CLOSED BOOK**.
3. STUDENTS ARE **PROHIBITED** TO CONSULT THEIR OWN MATERIAL OR ANY EXTERNAL RESOURCES DURING THE EXAMINATION CONDUCTED VIA CLOSED BOOK

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

- Q1**
- (a) State **three (3)** purposes for the management of Occupational, Safety and Health. (3 marks)
- (b) Safety and health although closely related but they are not the same. Differentiate between these **two (2)** terms. (4 marks)
- (c) Occupational, safety and health are a cross disciplinary area that concerned about protecting safety and health related to work. Define all the following term related to OSH.
- (i) Welfare
 - (ii) Risk
 - (iii) Hazard
 - (iv) Danger
- (4 marks)
- (d) Occupational, Safety and Health Act, OSHA 1994 (Act 514) is a regulation under OSHA 1994. There are **three (3)** types of legal structure in OSHA 1994. Compare all of them. (9 marks)
- Q2**
- (a) Risk management can be defined as the reduction or minimisation of the adverse effects of risks to which an organisation is exposed. List **five (5)** basic principles in risk management. (5 marks)
- (b) HIRARC is term for Hazard Identification, Risk Assessment and Risk Control. Describe **three (3)** purposes of HIRARC. (6 marks)
- (c)

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| Inadequate provision of clothing for employees and staff in chemical plants |
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- (i) Based on situation above, determine and provide a table for the quantitative risk assessment calculation of Risk = Likelihood x Severity. (7 marks)
 - (ii) Give a reason based on your answer in **Q2(c)(i)**. (2 marks)

- Q3** (a) Define and give an example of physical injury. (2 marks)
- (b) A chemical hazard is any substance, regardless of its form, that can potentially cause physical and health hazards to people. There are **four (4)** entry routes for exposure of chemical hazards to human beings. Describe all these entry routes. (8 marks)
- (c) The greatest danger to humans suffering electrical shock results from current flow. Therefore, explain **five (5)** ways to reduce electrical hazards. (10 marks)
- Q4** (a) Health hazard can be defined as a potential source of danger to a person's health.
- (i) State **four (4)** principles of prevention and control in health hazard. (4 marks)
- (ii) Define **three (3)** terms related to health hazard. (6 marks)
- (b) Biological agents include bacteria, viruses, fungi, and other microorganisms could adversely affect human health in a variety of ways.
- (i) Define an agent term in biological hazards. (2 marks)
- (ii) There are **four (4)** classifications of biohazard that dependable on different description of agents. Explain all about these classifications with an example. (8 marks)
- Q5** (a) An accident has been defined any unplanned event that causes injury, illness, property damage or harmful disruption of the work process.
- (i) Recall **four (4)** purposes for investigating an accident. (4 marks)
- (ii) Describe **five (5)** common causes of accidents. (10 marks)
- (c) There are **two (2)** types of accident investigation for accident reporting. Compare the difference between these types of accident reporting. (6 marks)

-END OF QUESTIONS –