



**KOLEJ YAYASAN PELAJARAN JOHOR
FINAL EXAMINATION**

COURSE NAME : OSHA & FACILITIES MANAGEMENT
COURSE CODE : DHM 2093
EXAMINATION : APRIL 2019
DURATION : 3 HOURS

INSTRUCTION TO CANDIDATES

1. This examination paper consists **THREE (3) PARTS:** PART A (15 marks)
PART B (70 marks)
PART C (15 marks)
2. Answer **ALL** questions.
3. Candidates are not allowed to bring any material to examination room except with the permission from the invigilator.
4. Please check to make sure that this examination pack consist of:
 - i. Question Paper
 - ii. OMR form
 - iii. Answer Booklet

DO NOT TURN THIS PAGE UNTIL YOU ARE TOLD TO DO SO

This examination paper consists of **8** printed pages including front page



PART A (TOTAL: 15 MARKS)**INSTRUCTION: ANSWER ALL QUESTIONS IN OMR FORM**

1. Below are the objective of OSHA 1994 **except**
 - A To secure the safety, health and welfare of persons at work against risks out of the activities at work.
 - B To formation and implementation of safety programs that are meant to teach the employees to handle the risks.
 - C To promote an occupational environment for persons at work which is adapted to their physiological needs.
 - D To protect human at a place of work other than persons at work against risks out of the activities at work against risks out of the activities at work.

2. What is the penalty if the employer failed to ensure safety, health and welfare of employees at the workplace?
 - A RM10 000 or to imprisonment not exceeding one year or both.
 - B RM30 000 or to imprisonment not exceeding one year or both.
 - C RM50 000 or to imprisonment not exceeding one year or both.
 - D RM100 000 or to imprisonment not exceeding one year or both.

3. Arrange the 6 steps in the correct order to follow the OSH-MS System Model.
 - A Inputs - Plan –Do – Policy Objectives – Act – Check
 - B Plan – Inputs –Do – Policy Objectives – Act - Check
 - C Inputs - Plan –Do – Policy Objectives – Check – Act
 - D Plan – Inputs –Do – Policy Objectives – Check – Act

4. A worker has large hands; he just used the last pair of large gloves in the box. He looked everywhere and there are no large gloves available. Which action should he take?
- A He should carry out the activity without gloves.
 - B He should report he lack of large gloves to his supervisor right away.
 - C He should file a complaint to the Joint Health and Safety Committee.
 - D He should wait until next month's Health and Safety meeting to report the lack of gloves.

5. Based on Figure 1 below, what protection does the gear provide?

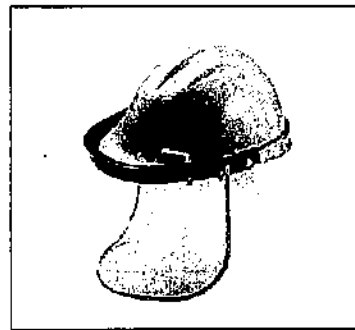


Figure 1

- A Head and ear
- B Eye and head
- C Head and face
- D Hand and head



Figure 2

6. Based on Figure 2 above, what does the hazard stand for?
- A Flame
 - B Flame burst
 - C Flame over circle
 - D Flame within circle

7. David wants to weld the pipeline. What kind of gloves that are appropriate for David to wear?
- A PVC
 - B Latex
 - C Nylon
 - D Leather
8. Which of the following statement is **false** for types of fire extinguisher?
- A Type D: for plastic
 - B Type C: for electrical
 - C Type A: for wood, cardboard and paper
 - D Type B: for flammable liquids and grease
9. What is the best answer to configure the P.A.S.S method?
- A Pull pin, Aim at base, Squeeze, Sweep from side to side
 - B Pull pin, Aim at base, Sweep from side to side, Squeeze
 - C Pull pin, Acting at base, Squeeze, Sweep from side to side
 - D Pull pin, Acting at base, Sweep from side to side, Squeeze
10. Which is **not** the component of fire?
- A Fuel
 - B Heat
 - C Oxygen
 - D Carbon Dioxide
11. Before fighting a fire, you must take safety precaution, **except**
- A you have a way out.
 - B the fire is small enough to fight.
 - C the area is filled with too much smoke.
 - D you know what is burning and have the suitable extinguisher.

12. What is the purpose of maintenance?

- A Lower maintenance and repair costs.
- B Minimize production loss from failure.
- C Product quantity and customer satisfaction.
- D Expensive product and customer satisfaction.

13. Mice can be categorized as _____ type of pest.

- A birds
- B insects
- C rodents
- D other mammals

14. What is the advantage of rainwater pipes?

- A To hold and support the roof.
- B Prevent the roof from collapse.
- C Prevents accumulation of water on roof.
- D To distribute the water from the storage tank to utility pipe.

15. What is heat transfer?

- A The exchange of heat from hot air to cold air.
- B The exchange of thermal sensor to the equipment.
- C The exchange of heat from surface to surrounding air.
- D The exchange of thermal energy between physical systems.

PART B (TOTAL: 70 MARKS)**INSTRUCTION: ANSWER ALL QUESTION IN THE ANSWER BOOKLET.****QUESTION 1**

a) As a safety officer, define **three (3)** concept of Occupational Safety and Health.

(6 Marks)

b) MHHE Sdn. Bhd is a shipping fabricator and maintenance company. As a company that is concerned with occupational safety and health, the management must establish a department related to the matter. List **four (4)** objectives of OSHA.

(8 Marks)

QUESTION 2

a) Occupational Health and Safety Management System is to control the risk in the work place by following the policy. Based on your understanding, illustrate the model for OHSAS 18001:2007 Standard.

(6 Marks)

b) Amin is an OSHA manager assigned to coordinate OSHA-related activities and is responsible for managing the OSHA department. As a manager, Amin needs a model that can be used to coordinate the system that can be applied to his department. He identified OHSAS standards that could be used for his department is based on methodology of PDCA. Please explain the stage of PDCA.

(8 marks)

QUESTION 3

a) A worker needs to undergo a day safety training to expose them with hazard and PPE. As a trainer, classify **three(3)** purposes of safety training.

(6 Marks)

- b) Cemilia is a chef assigned to lead a cooking team at a renowned hotel in the Johor Bahru district. As a knowledgeable and qualified person, Cemilia has expertise in the culinary field and is very concerned with safety and professionalism in its work. List **four (4)** considerations that should be applied before Cemilia selection PPE for chef purposes.

(8 Marks)

QUESTION 4

- a) To prevent a fire accident, knowing the element of fire is important. Illustrate the **three(3)** triangle elements of fire and draw the signage of flammable area.

(4 marks)

- b) Malaysia is a country with a record high accident in the world. There are many factors which cause accidents on roads in Malaysia. One of the reasons is the dark road and geographical factor in Malaysia. Give **five(5)** things related to technology that is capable of solving this problem and as hazard control.

(10 Marks)

QUESTION 5

- a) An air conditioner is like a refrigerator without the insulated box. Classify **three(3)** components involved in air conditioner with the function.

(6 Marks)

- b) Kevin is a maintenance engineer at a car manufacturing and assembly company. The company has set that within a month, the manufacturing department needs to complete 1000 cars. However, the department can only finish up to 800 cars. The main reason identified is due to the lack of recording periodic maintenance for the department. Choose **four(4)** advantages in doing preventive maintenance.

(8 Marks)

PART C (15 MARKS)**INSTRUCTION: ANSWER THE QUESTION IN THE ANSWER BOOKLET****QUESTION 1****Situation:**

The Networks Division of Babcock International Group operates in the high voltage power transmission, distribution and telecommunications industry. This industry faces a number of hazards, such as working with electricity and working at height. Babcock wanted to improve the safety culture and performance across the organisation.

Results:

The changes brought about significant improvements in safety performance, including a reduction in reportable incidents. The company's efforts have been recognised by a number of awards, including the Royal Society for the Prevention of Accidents' Gold Award for Occupational Safety in 2009 and 2010, and an International Safety Award for Health and Safety from the British Safety Council in 2009.

Based on the story above,

- a) Discuss **four(4)** actions from the Managing Director of Babcock company to make sure the employees follow the rules to decrease the accident record.

(8 Marks)

- b) As a Safety and Health Officer (SHO), express **seven(7)** methods to communicate safety and health information to employees of the company.

(7 Marks)

END OF QUESTION

