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**KOLEJ YAYASAN PELAJARAN JOHOR  
ONLINE FINAL EXAMINATION**

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**COURSE NAME : OSHA AND FACILITIES MANAGEMENT**  
**COURSE CODE : DHM 2093**  
**EXAMINATION : NOVEMBER 2020**  
**DURATION : 6 HOURS**

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**INSTRUCTION TO CANDIDATES**

1. This examination paper consists of **THREE (3) PARTS:**  
PART A (10 marks)  
PART B (70 marks)  
PART C (20 marks)
2. Please refer to the detailed instructions in this question paper.
3. Students are allowed to refer to resources such as lecture notes, books, internet or any other relevant resources.
4. Answer ALL questions in the answer sheet which is A4 size paper (or other paper with the consent of the relevant lecturer).
5. Write your details as follows in the upper left corner for each answer sheet:
  - i. Student Full Name
  - ii. Identification Card (I/C) No.
  - iii. Class Section
  - iv. Course Code
  - v. Course Name
  - vi. Lecturer Name
6. Each answer sheet must have a page number written at the bottom right corner.
7. Answers should be handwritten, neat and clear.

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

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This examination paper consists of 7 printed pages including front page

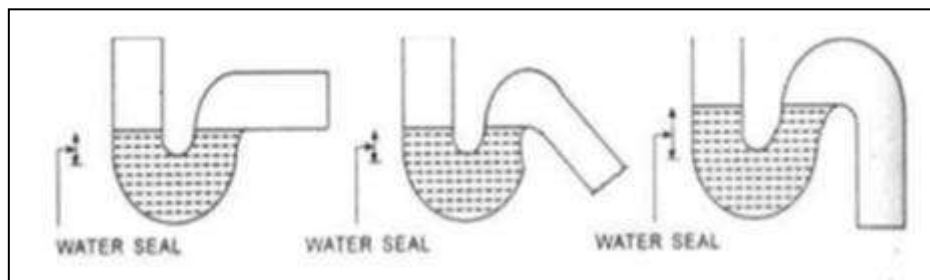
**PART A**

This part consist of **TEN (10)** questions.

Answer ALL in Answer Sheet.

1. When was Occupational Safety and Health Act (OSHA) Malaysia was enacted?
  - A 1943
  - B 1957
  - C 1967
  - D 1994
  
2. Below are the objectives 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 form and implement 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.
  
3. 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.
  
4. Which of the following does **not refer** to utility account?
  - A Fuel
  - B Food
  - C Water
  - D Electricity

5. Which of the following is **not included** for property, operation and maintenance account?
- A Labor
  - B Technology
  - C Fringe benefits
  - D Supplies and expendables
6. 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.
7. Based on **Figure 1**, which type of trap is used in toilet under water closet?



**Figure 1**

- A Q - Trap
- B R - Trap
- C S – Trap
- D P - Trap

8. Which of the following objects is a long cylinder of a strong material such as concrete that are pushed into the ground?
- A Pile
  - B Roof
  - C Cavity wall
  - D Foundation
9. Which of the following does not refer to the ways to control heat in building?
- A Break thermal bridges
  - B Dicrupt convective loops.
  - C Disturb conduction circles.
  - D Control condensation caused by air leakage.
10. Which of the following equipments can control the room temperature when an aircond is used?
- A Hot coil
  - B Control unit
  - C Compressor
  - D Expansion valve

[10 MARKS]

**PART B**

This part consist of **FIVE (5)** questions.

Answer ALL questions in Answer Sheet.

**QUESTION 1**

- a. Compare the standard and regulation of Occupational Safety And Health Administration (OSHA).

(2 marks)

- b. As a safety officer, explain **four (4)** major safety terminologies in order to assist with the task in your scope of work.

(8 marks)

**QUESTION 2**

- a. Write down **four (4)** the bad impacts of weak design in facilities management.

(4 marks)

- b. As an owner of a restaurant, you need to know about the asset management in your company. Prepare **five (5)** roles, cost and management of hospitality concerns.

(10 marks)

**QUESTION 3**

- a. As the owner of a hotel, it is a must to keep all the facilities that you have in your building in good condition to prevent any report from customer that they were not satisfied with your services. In order to prevent any malfunction of equipment at your facilities, give **three (3)** advantages of preventative maintenance.

(6 marks)

- b. Many maintenance departments today “fight fires” instead of approaching their problems systematically. Prevention is a far better goal than trying to solve problems as they arise. Classify **five (5)** problems in maintenance.

(10 marks)

#### QUESTION 4

A trap is a depressed or bent sanitary fitting which always remains full of water (water seal).

- a. Write the benefits of traps in plumbing system.

(2 marks)

- b. The function of a trap is to prevent the entry of bad smelling gases into the house.

Sketch **three (3)** types of traps with explanations their function.

(10 marks)

#### QUESTION 5

- a. Classify **four (4)** services that are provided by professional for building structure.

(8 marks)

- b. Roof are no longer merely the skin on the top of a building. The roof is expected to perform functions beyond merely providing a waterproof surface on the top of the building. Show **five (5)** importance of roof maintenance.

(10 marks)

[70 MARKS]

**PART C**

This part consist of **ONE (1)** question.

Answer ALL questions in Answer Sheet.

**QUESTION**

Maintenance is all actions necessary for retaining an item or restoring it to a serviceable condition including service, repair, modification, overhaul, inspection and condition verification. It also can increase availability of a system and keep system's equipment in working order. For example, you as 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.

From the statement above, you need to:

- a. Make **five (5)** actions to solve the problem.

(10 Marks)

- b. Prepare **five (5)** principle objectives in maintenance of facilities management.

(10 Marks)

**[20 MARKS]**

**END OF QUESTION**