



SET A

**UNIVERSITI KUALA LUMPUR
Malaysia France Institute**

**FINAL EXAMINATION
JANUARY 2014 SESSION**

SUBJECT CODE : FID 26402
SUBJECT TITLE : OPERATION AND SAFETY MANAGEMENT
LEVEL : DIPLOMA
TIME / DURATION : 2 HOURS
DATE :

INSTRUCTIONS TO CANDIDATES

- 1. Please read the instructions given in the question paper CAREFULLY.**
- 2. This question paper is printed on both sides of the paper.**
- 3. Please write your answers on the answer booklet provided.**
- 4. Answer should be written in blue or black ink except for sketching, graphic and illustration.**
- 5. This question paper consists of TWO (2) sections. Section A and B. Answer all questions in Section A. For Section B, answer two (2) questions only.**
- 6. Answer all questions in English.**

THERE ARE 3 PAGES OF QUESTIONS, EXCLUDING THIS PAGE.

SECTION A (Total: 60 marks)**INSTRUCTION: Answer ALL questions.****Please use the answer booklet provided.****Question 1**

- a. List **four (4)** objectives of OSHA 1994. (8 marks)
- b. When the Occupational Safety and Health Act 1994 (OSHA) was gazetted? (2 marks)

Question 2

- a. Define the **inventory** in manufacturing industry (4 marks)
- b. Describe **three (3)** functions of inventory in operation (6 marks)

Question 3

- a. "Productivity is a measurement of output divide of input". Describe how to increase productivity in manufacturing industry? (4 marks)
- b. List **four (4)** factors effecting in productivity (6 marks)

Question 4

- a. Explain **one (1)** act under Occupational Safety and Health Act 1994 (OSHA 1994). (6 marks)
- b. Define and describe briefly of this term OHSAS 18001 and ISO/EMS 14001. (4 marks)

Question 5

- a. Define the 'LOTO' and two (2) function in OSH.
(5 marks)
- b. List **five (5)** step in creating LOTO during maintenance activity
(5 marks)

Question 6

- a. List three (3) considerations should be applied before selection of PPE for welder.
(6 marks)
- b. Explain two (2) effecting to worker if wrongly selecting of Personal Protective Equipment
(4 marks)

SECTION B (Total: 40 marks)

INSTRUCTION: Answer two (2) questions only.

Please use the answer booklet provided.

Question 7

Table 1 shows the weekly report. Compute the multifactor productivity measure for each week. What do the productivity figures suggest?

Assume 40-hour weeks and an hourly wage of RM12. Overhead is 1.5 times weekly labor cost. Material cost is RM6 per kilogram

Table 1: Weekly Report

Week	Output (units)	Workers	Material (kg)
1	30000	5	450
2	33600	6	470
3	32200	6	460
4	35400	7	480

(20 marks)

Question 8

- a. “Humans are always blamed for the cause of an accident at a work place”. Discuss this statement base on the Human Factor Theory of Accident

(10 marks)

- b. Inspection is one elective way of indentifying possible hazard, so does risk assessment. Explain how these two approaches important to each other in minimizing hazard at workplace

(10 marks)

Question 9

Explain four (4) task environment boundary of the organization that have the potential to affect the organization

(20 marks)

END OF QUESTION