



SET A

UNIVERSITI KUALA LUMPUR

MALAYSIA FRANCE INSTITUTE

FINAL EXAMINATION
SEPTEMBER 2013 SESSION

SUBJECT CODE	: FVD 11002
SUBJECT TITLE	: AUTOMOTIVE WORKSHOP TECHNOLOGY
LEVEL	: DIPLOMA
DURATION	: 2 HOURS
DATE / TIME	:

INSTRUCTIONS TO CANDIDATES

1. Please read the instructions given in the question paper CAREFULLY.
 2. This question paper is printed on one side 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) question only.
 6. Answer all questions in English.
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THERE ARE 6 PRINTED PAGES OF QUESTIONS, EXCLUDING THIS PAGE.

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

- (a) Give **THREE (3)** common causes which lead to an accident in a workshop. (3 marks)
- (b) Give **TWO (2)** objectives of the automotive workshop safety that you understand? (4 marks)
- (c) Give **FIVE (5)** general safety precautions that you know. (5 marks)
- (d) Give **FOUR (4)** basic equipments for oxy-acetylene gas welding (2 marks)

Question 2

- (a) What are the **FIVE (5)** basic requirements of a good housekeeping? (5 marks)
- (b) What do you understand by automotive workshop safety? What are its objectives (6 marks)
- (c) What is the safe way to lift a heavy object? (5 marks)

Question 3

- a) Label the welding symbols as shown below in figure 3: (6 marks)

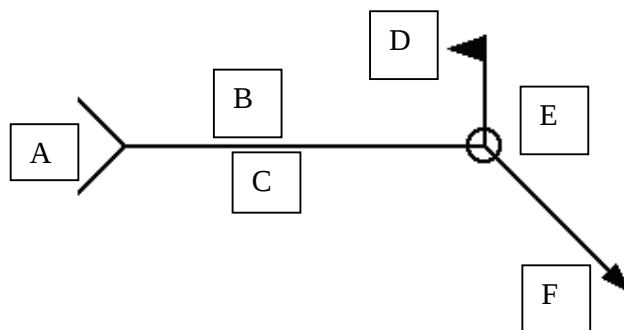


Figure 3

- b) List down all types of welding joint by referring to figure 4.

(8 marks)

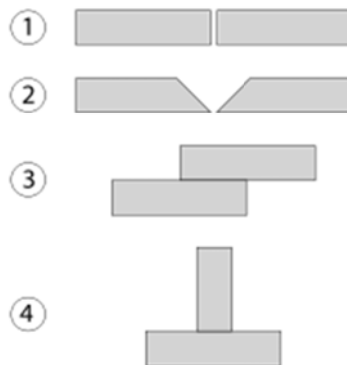


Figure 4

Question 4

Explain briefly and give examples of a soldering process

(7 marks)

What is brazing process? Describe and state Five (5) advantages of the process.

(9 marks)

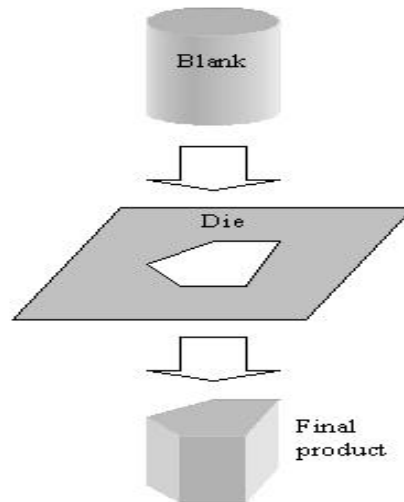
SECTION B (Total: 40 marks)**INSTRUCTION: Answer TWO (2) question only****Please use the answer booklet provided.****Question 1**

Figure 5

What is the type of process and explain briefly about the process as shown in Figure 5.

(20 marks)

Question 2

(b) What is welding?

(3 marks)

(c) Give **FIVE (5)** advantages of welded joints over other joints?

(5 marks)

(d) Sketch and explain **FOUR (4)** types of joints that are commonly used in welding.

(8 marks)

(e) A neutral flame is obtained by _____. The maximum flame temperature occurs at _____

(4 marks)

Question 3

- (a) In a turning operation on a lathe machine, define;
- (i) Cutting speed (2 marks)
 - (ii) Feed (2 marks)
 - (iii) Depth of cut (2 marks)
- (b) Name **SIX (6)** common operations on a lathe machining. (6 marks)
- (c) Name **FIVE (5)** common operations on milling machining. (5 marks)
- (d) Name the **THREE (3)** major parts of lathe machine (3 marks)

END OF QUESTION