



UNIVERSITI KUALA LUMPUR
Malaysia France Institute

FINAL EXAMINATION
SEPTEMBER 2014 SESSION

SUBJECT CODE	:	FVB11402
SUBJECT TITLE	:	AUTOMOTIVE WORKSHOP TECHNOLOGY
LEVEL	:	BACHELOR
TIME / DURATION	:	3.00 PM – 5.00 PM 2 HOURS
DATE	:	2 JANUARY 2015

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 in 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 (6) questions. Answer FIVE (5) questions only.**
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THERE ARE 3 PAGES OF QUESTIONS, EXCLUDING THIS PAGE.

INSTRUCTION: Answer FIVE (5) questions only.

Total Marks = 100

Question 1

- (a) Explain briefly, the term 'Safety'.
(2 marks)
- (b) There are several effects from hazardous substances. Describe **THREE** (3) effects of it.
(6 marks)
- (c) There are 9 Classes of Material Hazard Classification. Explain **FOUR** (4) of the classes with an example for each of them.
(12 marks)

Question 2

- (a) Explain briefly, the term 'Measurement'.
(2 marks)
- (b) Chisels are made in various sizes and shapes. Explain the procedures of using the chisels.
(6 marks)
- (c) Explain the precautions in using the electric drilling equipment.
(12 marks)

Question 3

- (a) Explain how the thread or screw thread is designed. (2 marks)
- (b) Explain the characteristics of the following : (6 marks)
- I. Thread Series
 - II. Thread Class
- (c) Explain how to read the measurements shown on the vernier caliper and bore gauge. (12 marks)

Question 4

- (a) Explain the purpose of clearing angle in cutting process. (2 marks)
- (b) Explain **SIX** (6) ways to reduce the blade breakages for hacksaw blade. (6 marks)
- (c) In a turning operation on a lathe machine, **sketch** the metal cutting process and **explain** the following terminology: (12 marks)
- I. Cutting speed
 - II. Feed
 - III. Depth of cut

Question 5

- (a) Describe the function of using files. (2 marks)
- (b) Snap rings are divided into two classes, Internal Snap Rings and External Snap Rings. Explain the characteristics of BOTH snap rings. (6 marks)
- (c) Explain the differences between the Hard Solder and the Easy Solder (12 marks)

Question 6

- (a) Describe the welding process. (2 marks)
- (b) Explain **THREE** (3) Advantages and **THREE** (3) Disadvantages of welded joints. (6 marks)
- (c) Explain **SIX** (6) differences between Alternating Current (A.C) arc welding and Direct Current (D.C) arc welding. (12 marks)

END OF QUESTION