



**UNIVERSITI KUALA LUMPUR
Malaysia France Institute**

**FINAL EXAMINATION
SEPTEMBER 2014 SESSION**

SUBJECT CODE : FVD11002
SUBJECT TITLE : AUTOMOTIVE WORKSHOP TECHNOLOGY
LEVEL : DIPLOMA
TIME / DURATION : 12.45 PM – 2.45 PM
(2 HOURS)
DATE : 6 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 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** 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.
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THERE ARE 5 PAGES OF QUESTIONS, EXCLUDING THIS PAGE.

SECTION A (Total: 60 marks)**INSTRUCTION: Answer ALL questions.****Question 1**

- a. Define automotive workshop safety and give **TWO (2)** objectives of workshop safety. (5 marks)
- b. List **FIVE (5)** general basic safety rules used in automotive workshop. (5 marks)
- c. Describe **FIVE (5)** causes which lead to accident in a workshop. (5 marks)
- d. Explain **FIVE (5)** personal protective equipments used in workshop. (5 marks)

Question 2

- a. List **THREE (3)** hand tools and explain potential hazards that can occur if less precaution given while using them. (6 marks)
- b. Differentiate the use of tap, chisel and punches. (6 marks)
- c. Name the tool that is used to turn the tap. (2 marks)
- d. **M 12 X 1.5** is stamped on the shank of tap.
 - i. Explain what **'M'** refers to. (2 marks)
 - ii. Explain what **'15'** refers to. (2 marks)
 - iii. Explain what **'1.5'** refers to. (2 marks)

Question 3

- a. In filing, there are five grades of cut. List ALL and explain briefly **TWO (2)** of them. (10 marks)
- b. Name the methods that are commonly used for filing. (6 marks)
- c. Explain what cutting angle is with a simple sketch. (4 marks)

SECTION B (Total: 40 marks)

INSTRUCTION: Answer TWO (2) questions only.

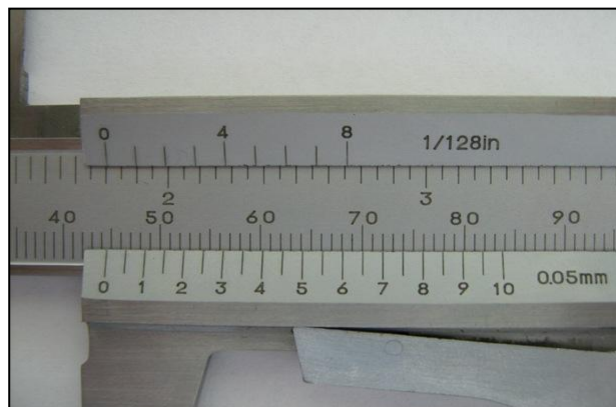
Question 4

- a. Describe **FIVE (5)** major hazards due to faulty work habits of the employees or unsafe working conditions. (10 marks)
- b. List **FOUR (4)** rules for the safe using files. (4 marks)
- c. Explain safe ways to lift a heavy object. (6 marks)

Question 5

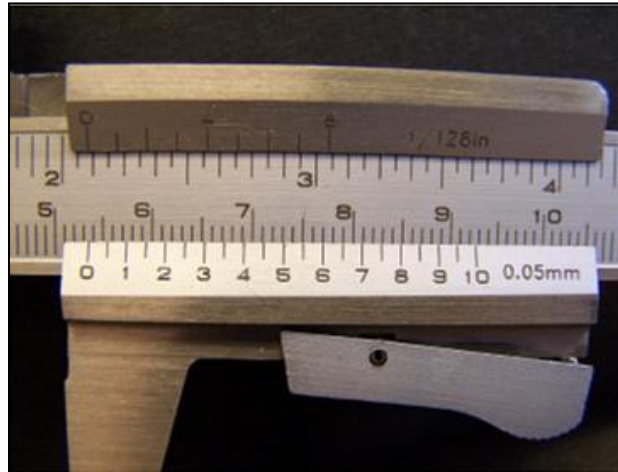
- a. Calculate the right measurement (in metric) for each of the reading below with the right step of calculation.

i.



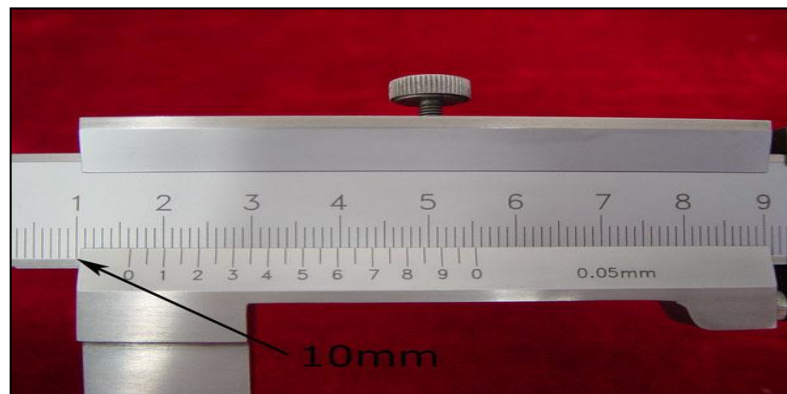
(2 marks)

ii.



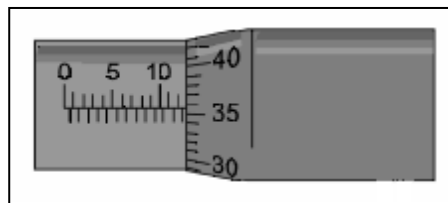
(2 marks)

iii.



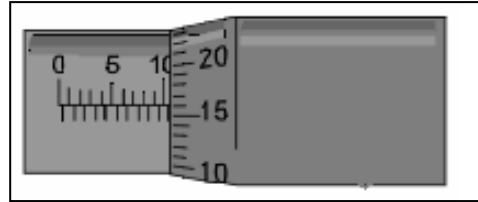
(2 marks)

iv.



(2 marks)

v.



(2 marks)

- b. Explain how measurement is read on a Vernier Caliper. (5 marks)
- c. Explain how measurement is read on a Micrometer. (5 marks)

Question 6

- a. List **FIVE (5)** types of chisel used in work place. (5 marks)
- b. List **FIVE (5)** types of punches used in work place. (5 marks)
- c. List **FIVE (5)** types of files shape and their used. (10 marks)