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SET A

UNIVERSITI KUALA LUMPUR Malaysia France Institute

FINAL EXAMINATION

JANUARY 2014 SESSION

SUBJECT CODE : FVB 30503

SUBJECT TITLE : COLLISION TECHNOLOGY

LEVEL : BACHELOR

TIME / DURATION : 2.5 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. Answer ALL questions in Section A. For Section B, answer any THREE (3) questions only.
- 6. Answer all questions in English.

THERE ARE 3 PAGES OF QUESTIONS, EXCLUDING THIS PAGE.

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SECTION A (Total: 40 marks)

INSTRUCTION: Answer ALL questions.

Please use the answer booklet provided.

Question 1

a) Describe what happens to a vehicle during a collision.

(5 marks)

b) Explain the basic steps needed to repair a vehicle that is damaged in an accident.

(5 marks)

Question 2

Explain the differences between a body-over-frame construction and unibody construction? Sketch a diagram to justify your answer.

(10 marks)

Question 3

a) Describe THREE (3) body sections of a vehicle.

(6 marks)

b) Explain by the term "First damage in, last damage out," in metal straitening technique?

(4 marks)

Question 4

a) Explain the problems to look at the car in doing an estimation repair cost?

(7 marks)

b) Describe the effects if your estimation is too low or too high?

(3 marks)

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SECTION B (Total: 60 marks)

INSTRUCTION: Answer any THREE (3) questions only

Question 5

Based on the diagram in Figure 1, you are required to:

a) Draw a complete flow chart for the door repair procedures

(10 marks)

b) Explain all the furnishing work to be carried out.

(10 marks)

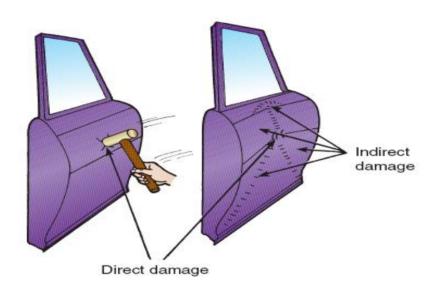


Figure 1

Question 6

a) List down TWO (2) functions of a vehicle's paint or finish?

(2 marks)

b) List and explain **THREE (3)** basic types of automotive paints.

(8 marks)

c) Explain the differences between thinner, reducer, and premix?

(5 marks)

d) In details, explain about the sandpaper grit numbering system and how it is used.

(5 marks)

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Question 7

a) Summarize the MIG welding process.

(6 marks)

b) Describe the basic guidelines to follow when performing MIG welding

(8 marks)

c) Describe that can be done to prevent heat build-up during welding?

(6 marks)

Question 8

Based on the given photo in Figure 2, you are required to determine the:

a) Estimation sequence in details.

(8 marks)

b) Suggested work and parts replacement

(8 marks)

c). Time taken to complete the body repair and finishing process

(4 marks)



Figure 2

END OF QUESTION