



**UNIVERSITI TUN HUSSEIN ONN MALAYSIA**

**FINAL EXAMINATION  
SEMESTER I  
SESSION 2016/2017**

COURSE NAME : VEHICLE BODY TECHNOLOGY  
COURSE CODE : BNG 40203  
PROGRAMME : BNG  
EXAMINATION DATE : DECEMBER 2016 / JANUARY 2017  
DURATION : 2 HOURS AND 30 MINUTES  
INSTRUCTION : ANSWER ALL QUESTIONS

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THIS QUESTION PAPER CONSISTS OF **THREE (3)** PAGES

- Q1** (a) An aluminum panel has a bulge after initial straightening. The bulge pops in and out with hand pressure. Select the appropriate method to overcome the problem. (10 marks)
- (b) Construct the method for removing a gouge in metal. (10 marks)
- Q2** (a) Demonstrate the method to remove a hood of the vehicle. (8 marks)
- (b) Analyse the cautions that should be observed during removing bumpers with energy absorbers. (8 marks)
- (c) If you are in doubt, decide the way to find out how to remove a front fender. (4 marks)
- Q3** (a) Point out **SEVEN (7)** steps in a basic collision damage diagnosis procedure. (10 marks)
- (b) Vehicles with major damage must often have their frame or body structures straightened. This process is called body aligning or pulling.
- (i) Plan **SIX (6)** preparation before do any body aligning. (6 marks)
- (ii) Arrange **THREE (3)** steps that should be taken to protect the body and externally attached parts before doing any pulling work. (3 marks)
- (ii) If a pulling chain is rated at 2,100 pounds (945 kg) and it should not be strained over 50 percent of its rating, predict the maximum force that should be applied to the chain. (1 marks)

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- Q4** (a) (i) Explain the corrosion phenomena with basic elements involved in the chemical reaction. (4 marks)
- (ii) Give **TWO (2)** basic types of corrosion protection used on today's automobiles. (2 marks)
- (b) Classify **FOUR (4)** broad categories of anticorrosion materials. (8 marks)
- (c) Analyse **THREE (3)** basic safety rules to follow when working with anticorrosion compounds. (6 marks)
- Q5** (a) Explain **THREE (3)** problems often found during a spray pattern test. (6 marks)
- (b) Outline **FOUR (4)** common spray gun handling problems experienced by an inexperienced painter. (8 marks)
- (c) Investigate **SIX (6)** variables that must be addressed before painting. (6 marks)

- END OF QUESTIONS -

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