

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

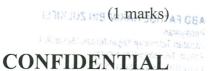
Q1	(a)	a) An aluminum panel has a bulge after initial straightening. The bulge pops with hand pressure. Select the appropriate method to overcome the problem			
		(10 mar)	ks)		
	(b)	Construct the method for removing a gouge in metal.			
		(10 mar)	ks)		
Q2	(a)	Demonstrate the method to remove a hood of the vehicle.			
		(8 mar)	ks)		
	(b)	Analyse the cautions that should be observed during removing bumpers with ener absorbers.	gy		
		(8 marl	s)		
	(c)	If you are in doubt, decide the way to find out how to remove a front fender.			
		(4 mark	s)		
Q3	(a)	Point out SEVEN (7) steps in a basic collision damage diagnosis procedure.			
		(10 mark	s)		
	(b)	Vehicles with major damage must often have their frame or body structur straightened. This process is called body aligning or pulling.	es		
		(i) Plan SIX (6) preparation before do any body aligning.			
		(6 mark	(s)		
		(ii) Arrange THREE (3) steps that should be taken to protect the body of	nd		

(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.





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

- END OF QUESTIONS -

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