CONFIDENTIAL

SET A



UNIVERSITI KUALA LUMPUR

MALAYSIA FRANCE INSTITUTE

FINAL EXAMINATION APRIL 2010 SEMESTER

SUBJECT CODE

: FVD30004

SUBJECT TITLE

: AUTO ASSESSEMENT

LEVEL

: DIPLOMA

DURATION

: 6 hours

DATE / TIME

: APRIL 2010

INSTRUCTIONS TO CANDIDATES

PRACTICAL

1. Answer all questions

THERE IS 1 PRINTED PAGE OF QUESTIONS, EXCLUDING THIS PAGE.

(100 marks)

ENGINE TOP AND BOTTOM OVERHAUL

You are given: -

- 1. engine on stand
- 2. necessary Special Service Tool (SST)
- 3. necessary measuring tools
- 4. tightening tools

You are asked to: -

- 1. remove one set of engine valves
- 2. remove one set of connecting rod and piston assembly
- 3. answer all the questions asked by the examiner
- 4. write a report about the components that was measured

It is required that:

- 1. all the procedures made according to the safety rules
- 2. all the explanation is clear and correct
- 3. the report about the components is correct



UNIVERSITI KUALA LUMPUR MALAYSIA FRANCE INSTITUTE

AUTOMOTIVE MAINTENANCE TECHNOLOGY

FVD30004

AUTO ASSESSMENT & PERFORMANCE TEST

PRACTICAL

APRIL 2010

ANSWER PAPER DURATION: 6 HRS.

Instruction:					
All exams submitted must be students' own effort. Any plagiarism/copying will result in an instant failing of the examination.					
Student Name	Student ID ————				
Date	Time Start / Finished				
Student Signature	Examiner's Name & Signature				

MARKING SCHEME

STUDENT ID:

No	o Assessment criteria		Marks		
		0	1	2	
ļ	Read and understand the question				
2	Select appropriate tools.				
3	Prepare the work place (table, tray etc.)				
4	Check engine oil				
5	Check coolant level				
6	Start the engine				
7	Drain the engine coolant				
8	Completely drain the coolant from the engine by opening the drain plug at engine				
,	block – below the exhaust manifold				
9	Drain engine oil into proper container				
10	Remove intake manifold assembly				
11	Remove the distributor unit, fuel pump and all necessary wiring and piping system				
12	Remove exhaust pipe and exhaust manifold			4	
13	Remove and put carburetor vertically.				
14	Remove necessary belting, timing cover				
15	Loose the cam shaft bolt before remove the timing belt assembly				
16	Remove rocker cover and rocker arm assembly				
17	Loose the cylinder head bolt – outside in				
18	Able to remove the cylinder head and the engine valves				
19	Remove the oil pan and cond-rod piston assembly				
20	Put all the engine component into the suitable container / tray				
21,	Clean all the necessary parts before fixed back to the engine				
22	Lubricate all the necessary parts				
23	Able to install the valve assembly correctly and check the condition – knock with the				
4	mallet				
24	Able to set the piston ring position correctly				
25	Able to install the piston and condrod assembly correctly			à	
26	Tight the conrod cap using torque wrench with the suitable tightening specification –				
27	20 - 30 N/M				
27	Check the connecting rod bearing condition by rotating the crank shaft				
28	Able to install the oil pan correctly				

29	Oil pan bolt must be tight using the torque wrench – 8 N/M		
9	Name have been all the city of		
30	Never break the oil pan gasket		
31	Install the cylinder head and tighten the bolt with correct sequence		
22	Head bolts are tighten according to the specification		
32	Tread boits are righten according to the specimeation		
33 -	Torque the cylinder head bolts in 3 stages		
34	Able to install the rocker arm assembly correctly, and bolts are tighten according		
	specification – 30 N/M		
35	Set the timing mark at cam pulley and crank pulley		
36	Able to install the timing belt correctly		
37	Able to set the timing belt tension correctly		
38	Able to install all the necessary parts correctly		
39	Able to set & use torque wrench		
40	Set the timing mark		w
41	Install the timing belt accordingly		
42	Double check the marking once complete		
43	All bolts and nuts are tight appropriately		
44	All connector & hose are connected		
45	No leaking		
46	Engine run smoothly		
47	Able to use timing light		
48	Able to adjust the advance timing		
49	Follow the safety		
50	House-keeping		
51	Answer the examiner question.		¥
	TOTAL		
	GRAND TOTAL	/102	

* Critical Point

Engine Valve Timing to be correctly set.

❖ IF CRITICAL POINT IS NOT FOLLOWED BY THE STUDENT, DEDUCTION OF 30 % OF THE TOTAL MARKS SHOULD BE PENALISED.