## C.U.SHAH UNIVERSITY Summer Examination-2016

Subject Name: Automotive Maintenance and Safety

Semester: 5 Date: 27/04/2016 Time: 2:30 To 5:30 Marks : 70

Instructions:

- (1) Use of Programmable calculator & any other electronic instrument is prohibited.
- (2) Instructions written on main answer book are strictly to be obeyed.

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- (3) Draw neat diagrams and figures (if necessary) at right places.
- (4) Assume suitable data if needed.

Q-1		Attempt the following questions:	(14)
	a)	What do you mean by maintenance?	(1)
	<b>b</b> )	Describe types of maintenance	(1)
	<b>c</b> )	Explain service rating of vehicles in kilometer	(1)
	d)	What is Preventive (scheduled) maintenance?	(1)
	<b>e</b> )	Explain Function of clutch.	(1)
	<b>f</b> )	Explain Function of cooling system.	(1)
	<b>g</b> )	Function of seat belt in vehicle.	(1)
	<b>h</b> )	What do you mean by non-Standard tools?	(1)
	i)	What is breakdown (unscheduled) maintenance?	(1)
	j)	What is the principal of braking system?	(1)
	k)	Define the term overhauling	(1)
	<b>l</b> )	What is bleeding?	(1)
	<b>m</b> )	Explain requirement of suspension system	(1)
	n)	Explain function of propeller shaft	(1)
Atten	ıpt any f	our questions from Q-2 to Q-8	
Q-2		Attempt all questions	
	a)	Explain in detail	(07)
		1. Cylinder boring 2.cylinder honing 3. Valve grinder.	
	b)	What is Garage? Explain types of garage.	(07)
Q-3		Attempt all questions	
¥۶	a)	Explain with neat sketch wheel alignment.	(07)
	a) b)	Give comparison of preventive maintenance and schedule maintenance	(07)
	U)	Give comparison of preventive maintenance and selecture maintenance	( <b>0</b> T)
Q-4		Attempt all questions	
	a)	What is tilteble steering wheel and how it works.	(07)
	b)	Explain splash type lubricating system with neat sketch.	(07)

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Q-5		Attempt all questions	
	a)	Draw and explain Anti-lock braking system with neat sketch	(07)
	b)	List types of steering system used in automobile and also explain any one in brief.	(07)
Q-6		Attempt all questions	
	a)	Differentiate between standard tools & non-Standard tools	(07)
	b)	Prepare a garage layout for three vehicle and explain working of it	(07)
Q-7		Attempt all questions	
	a)	Differentiate between Garage and Service Station.	(07)
	b)	What is bleeding? Explain the bleeding of hydraulic brake and why it is required	(07)
Q-8		Attempt all questions	
	a)	Explain Bumper design for safety what are the key factors for design of bumper.	(07)
	b)	Explain why servicing of suspension system is required and procedure for the same	(07)

