TEL) (10) <u>~</u>	4027	
(REV	ISION—		
(ILL)		Signature	
		SIXTH SEMESTER DIPLOMA EXAMINATION IN MECHANI ENGINEERING—MARCH, 2013	ICAL
		AUTOMOBILE ENGINEERING	
			[Time: 3 hours
		(Maximum marks: 100)	[1me . 5 hours
	277	PART—A	
		(Maximum marks: 10)	
			Marks
I	Answ	ver all questions in one or two sentences. Each question carries 2	
	1. S	State the function of a thermostat in cooling system.	(1)
		What is carburetion?	
	3. Id	dentify the function of a clutch.	
	4. L	ist any two type of rear axles.	
	5. V	Vhat is brake bleeding?	(5×2=10)
		PART—B	
II	Aneny	(Maximum marks: 30)	
11	1. St	er any five of the following questions. Each question carries 6 mar	ks.
		tate the purpose of lubrication in IC engines.	*
	2. Ex	xplain any three noise reduction control techniques in an automobile.	
		raw the elements of transmission system of an automobile.	
		ompare fluid flywheel with torque convertor.	
000		ate any six objectives of suspension system.	
		rite short note on MPFI (Gasoline injection system).	
	7. Ex	aplain the working of disc type brake.	$(5 \times 6 = 30)$
		PART—C	
		(Maximum marks: 60)	

Unit-I

(Answer one full question from each unit. Each question carries 15 marks.)

III (a) Compare battery ignition system and magneto ignition system.

8

(b) With sketch explain the working of forced circulation system of water cooling.

7

			Marks
IV	(a)	Draw a SU carburettor and label the parts.	8
	(b)	Explain the splash system of lubrication with a sketch.	7
		Unit—II	
V	(a)	Explain with sketch the working of a sliding mesh gear box.	8
	(b)	Explain the working of a torque convertor.	7
		Or	
VI	(a)	With neat sketch explain the working of a centrifugal clutch.	8
	(b)	Illustrate the working of a differential unit.	7
		Unit—III	
VII	(a)	Sketch any four type of stub axle and show their parts.	8
	(b)	What is the purpose of camber? Explain the effect of incorrect camber.	7
		Or	
VIII	(a)	With neat sketch explain the steering system of an automobile.	8
	(b)	Draw and explain three-quarter floating axle.	7
		Unit—IV	
IX	(a)	Explain the construction of a Disc wheel with figure.	8
	(b)	Explain the working of power window in an automobile.	7
		OR	
X	(a)	With the help of a block diagram explain the working of a hydraulic brake system.	8
	(b)	Compare radial and bias-ply tyre.	7