TED (15) – 4022	Reg. No
(REVISION — 2015)	Signature
DIPLOMA EXAMINATION IN ENGI MANAGEMENT/COMMERCIAL PRA	·
AUTOMOBILE ENG	INEERING
(Maximum marks	[ <i>Time</i> : 3 hours: 100)
PART — A	
(Maximum marks	: 10)
	Marks
I Answer all questions in one or two sentences.	Each question carries 2 marks.
1. Define Carburetion.	
2. State the purpose of thermostat.	×.
3. Name any 2 types of rear axles used in at	ntomobiles.
4. Identify the purpose shackle in leaf spring.	
5. List any two advantages of CRDi.	$(5\times2=10)$
PART — B	
(Maximum marks	s: 30)
II Answer any five of the following questions. I	Each question carries 6 marks.
1. Describe the working of simple carburetto	r.
2. Describe any two types of governing of Id	C engines.
3. Explain the working of fluid coupling.	
4. Distinguish between universal joint and co	nstant velocity joint.

Draw the layout of steering mechanism.

Explain leading shoe and trailing shoe.

State the purpose of turbocharger.

 $(5 \times 6 = 30)$ 

## PART — C

(Maximum marks: 60)

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

	(MISWCI	One fair question from each time. Each fair question carros 15 maries,	
		Unit — I	
III	(a) Nam	e the components of diesel fuel feed system and state the function of	
	fuel	injector.	7
	(b) Expl	ain with a schematic diagram the working of battery ignition system.	8
		OR	
IV	(a) Exp	lain splash lubrication system.	7
	` '	merate the different circuits used in solex carburettor also state the purpose oat circuit.	8
		Unit — II	
V	(a) List	any seven requirements of clutch.	7
	(b) Sket	ch any four types of stub axle and mark the parts.	8
		OR	
VI	(a) Illust	trate the working principle of differential.	7
		ain with sketch the working of a constant mesh gear box.	8
		Unit — III	
VII	(a) Men	ation any seven objectives of suspension system.	7
	(b) With	a sketch, explain the working of a master cylinder in hydraulic brakes.	8
	1.	OR	
VIII	(a) Disc	russ the benefits of disc brakes.	7
	(b) Expl	lain the working of a recirculating ball type steering gear box with sketch.	8
		Unit — IV	
IX	(a) List	any 7 advantages of MPFI.	,
~ ~		cribe briefly:	
	` /	Power steering (ii) Air bag.	
	(-) 1	OR	
v	(a) Dria		,
X	, ,	fly explain the working of CRDi with simple sketch.	ļ
	(D) W10	n a circuit diagram explain electronic ignition system.	,