Roll No. .....

## 24354

## B. Tech 6th Semester (ME) Examination – May, 2018

	Examinatio	n – May, 2018	
	AUTOMOBIL	E ENGINEERING	
	Paper	: ME-302-F	
Time : T	Three Hours ]	[ Maximum Mar	ks : 100
been supp this regar	olied the correct and con d, will be entertained afte		plaint in
Note:		compulsory. Students I ons in all, at least one qu	
1. (a)	Define the clutch li	nkage.	5
(b)	What is Universal j	oint?	5
(c)	What is Electronics	steering?	5
. (d)	What is Evaporativ	e emission control ?	5

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## SECTION - A

2. (a) What are various safety consideration in leatest

10

vehicle?

	(b) Explain the principle of multi plate clutch detail.	in 10
3.	Discuss the following:	20
	(a) Multi plate clutch	
	(b) Front drive vehicle	
	SECTION - B	
4.	What are different types of gear boxes ? Explain	in
	detail.	20
5.	Explain the following:	20
	(i) Propeller shaft	
	(ii) Types of load coming on rear axle	
	SECTION - C	
6.	What is the need of suspension system ? Explain the	ne
		20
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1.	(a) Discuss the Toe in/Toe-out.	10
	(b) What is Rack & pinion power steering gear?	10
	SECTION - D	
8.	What is the need of braking system ? Explain in d	etail
	the various types of brakes.	20
0	White short note on the fallowing	00

(i) Purpose and operation of starting system

(ii) PVC system