

Reg.No. \_\_\_\_\_



**Karunya UNIVERSITY**

(Karunya Institute of Technology & Sciences)  
(Declared as Deemed-to-be University under Sec.3 of the UGC Act, 1956)

**End Semester Examination – Nov/Dec – 2016**

**Code : 14ME2021**  
**Sub. Name : MODERN VEHICLE TECHNOLOGY**

**Semester : 2016-17 ODD**  
**Duration : 3hrs**  
**Max. marks : 100**

**ANSWER ALL QUESTIONS (5 x 20 = 100 Marks)**

Q. No.	Sub Div.	Questions	Course Outcome	Marks
1.	a.	Explain in detail about the components of automobile with a neat sketch	1	20
(OR)				
2.	a.	Explain about the fuel supply system in SI Engine with a neat sketch.	2	10
	b.	Write in detail about the fuel supply system in CI Engine with a neat sketch.	2	10
3.	a.	Briefly explain about the steering geometry with a neat sketch.	2	20
(OR)				
4.	a.	Write in detail about the suspension system with a neat sketch.	2	20
5.	a.	Draw a neat sketch and explain about the multiplate clutch and enumerate applications, advantages and disadvantages.	2	20
(OR)				
6.	a.	Briefly explain about the ABS with a neat sketch and enumerate applications, advantages and disadvantages.	2	20
7.	a.	Explain in detail about the sliding mesh gear box with a neat sketch and its applications	2	14
	b.	Write short notes on differential.	2	6
(OR)				
8.	a.	With a neat sketch and explain about the synchromesh gear box and its applications.	2	14
	b.	Write short notes on universal joint.	2	6
<b><u>Compulsory:</u></b>				
9.		Explain the following with a neat sketch		
	a	CRDI	2	10
	b	MPFI	2	10

ALL THE BEST