Seat No.:	Enrolment No.

GUJARAT TECHNOLOGICAL UNIVERSITY

ME - SEMESTER II- EXAMINATION - WINTER - 2016

Subject Code: 2721105		Date: 21/11/2016		
Tir	ne: 2 cructio 1. 2.	Name: High Speed diesel Engines 2:30 pm to 5:00 pm ons: Attempt all questions. Make suitable assumptions wherever necessary. Figures to the right indicate full marks.	Total Marks: 70)
Q.1	(a) (b)	Explain various types of losses in actual diesel cycle. Explain various combustion stages with figure in diesel engine)7)7
Q.2	(a) (b)	Give requirements for good combustion chamber for diesel en Explain various methods of supercharging with figure. OR	C)7)7
	(b)	Explain M combustion chamber with figure.	0)7
Q.3	(a) (b)	Define delay period and explain effect of various parameters of Explain working of fuel injector.)7)7
		OR		
Q.3	(a) (b)	Explain various spray characteristics with figure. Discuss limitations of supercharging for CI engine.)7)7
Q.4	(a) (b)	Explain working of distributor pump. Explain the role of Air fuel ratio for combustion in CI engine OR)7)7
Q.4	(a) (b)	Explain various types of fuel injection nozzles. Explain various turbo charging methods.)7)7
Q.5	(a) (b)	Explain features and merits of open combustion chamber. Write short note on piston cooling. OR)7)7
Q.5	(a) (b)	Explain special features of agricultural and industrial engines. Write short note on energy cell combustion chamber.)7)7
