Registration No :																
Total Number of Pages : 02 210 210 210														210	B.Tech. PME4I103	21
4 <sup>th</sup> Semester Regular / Back Examination 2017-18 IC ENGINE & GAS TURBINE BRANCH : MECH Time : 3 Hours Max Marks : 100 Q.CODE : C779																
The figures in the right hand margin indicate marks.  Answer all parts of a question at a place.															21	
Part – A (Answer all the questions)  Q1 Answer the following questions: multiple type or dash fill up type: (2 x 10)																
Q1	a)	Answer the following questions: multiple type or dash fill up type:  Thermal efficiency of CI engine is higher than that of SI engine due to													(2 X 10)	
210	u,	(a) Fuel used (b) Higher compression ratio (c) Constant pressure heat addition (d) None of the above									210		21			
	b)	Optimum spar (a) Higher me (c) Both (a) ar	an ef	fectiv		ssure			er eff e of th							
	c)	Scavenging a (a) Air used for	ir in c	liesel nbust	ion se	ent ur	ans									
210		(b) Forced air for cooling cylinder (c) Burnt air containing products of combustion 210 210 210 210 210 210 210														
	d)	The volumetric efficiency is effected by  (a) The exhaust gas in the clearance volume  (b) Valve timing  (c) The design of intake and exhaust valve														
210	e)	(d) All of the a			210 fual is	indic	hater	210 hv. ite			21			210		21
	C)	(a) Octane nu (c) Flash poin	mber		iuci is	, iii aic	(b)	•	ne nu	ımbeı	r					
	f)	The theoretica (a) 5 : 1 (c) 15 : 1	ally co	orrect	air fu	el rat	(b)	petro 10 : 20 :	1	ne is	of the	e orde	er of			
210	g)	Supercharging (a) Diesel eng (c) Petrol eng	gines	sseni	tial in		, ,		turbir aft er		21			210		21
	h)	Combustion in compression ignition engines is  (a) Homogeneous  (b) Heterogeneous  (c) Turbulent  (d) Laminar														
210	i)	An engine ind (a) Speed (c) BHP 210	licato	r is us	sed to	dete	(b)	Tem	perati	ure	press	sure a	nd I.H.P	<b>2</b> 10		21
	j)	Pressure ratio (a) 2 to 3 (c) 16 to 18	o for a	gas	turbin	e ma	y be i (b)		range 5		-					