AU/ME-4004 (CBGS) **B.E. IV Semester** Examination, November 2019 Choice Based Grading System (CBGS) **Energy Conversion** Time: Three Hours Maximum Marks: 70 Note: i) Attempt any five questions. http://www.rgpvonline.com ii) All questions carry equal marks. iii) Draw neat sketch, if required 1. a) Write a short note on power balance for multi-cylinder engines. Compare the performance characteristics of SI and CI engines. What are the various factors affecting volumetric efficiency? Discuss the salient features of various type combustion chambers. What do you mean by pre-ignition? Discuss the causes and remedy of turbulence. Draw the pressure-crank angle diagram and discuss its

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i.	Discuss the importance of fuel pump. What is working		
	principle of fuel pump? Explain.		14
6.	What is the fuel injectors? Discuss the working principle of		
	fuel	l injectors.	14
7.	a)	What is times base indicator diagram? Explain.	7
	b)	Discuss the various methods of super charging.	7
.	Wri	te a short note on any four of following.	14
	i)	Diesel knock	
	ii)	Carburetion	
	iii)	Fuel metering	
	iv)	Turbo charging	
	v)	Mean effective pressure	
	vi)	Solex carburetor	
	vii)	Knock inhibitors	

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What do you mean by cooling of S.I. Engines? Discuss the effect of lubrication of C.I. Engines.

salient points.