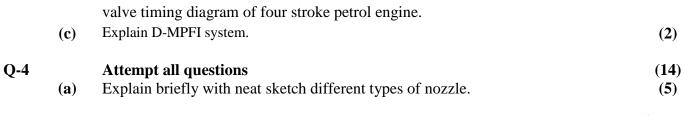
	Enrollm	ent No:	Exam Seat No:		
		C.U.SH	AH UNIVERSIT	$\Gamma \mathbf{Y}$	
			r Examination-201		
		Summe	i Exammation-2010	O	
	Subject 1	Name: Internal Combustion	n Engines		
	Subject (	Code: 4TE05ICE1	Branch: B.Tech (Mechan	ical)	
	Semester	r: 5 Date: 23/03/20	18 Time: 10:30 To 01:30	Marks: 70	
	(2) I (3) I	Use of Programmable calcula instructions written on main a	tor & any other electronic instrum answer book are strictly to be obey res (if necessary) at right places.	-	
Q-1		Attempt the following que	estions:	(	(14)
	a)	Mention three main function	n of a piston		01
	<b>b</b> )		re starting the suction stroke?		01
	c)	What are L-head and T-hea	_		01
	d)	What is the function of floa	t chamber used in carburettor?		01
	<b>e</b> )	What is specialty of pinitau			01
	f)	How the combustion is start			01
	<b>g</b> )	Why antifreeze solution is a			01
	<b>h</b> )	What is the need of cooling	•		01
	i)	Write down the firing order	neasurement of brake power?		01 01
	j) k)	Define term Indicated Power	•		01
	l)	What is blow by action?			01
	m)	Which are the methods of to	urbo charging?		01
	n)	What are the objectives of s	5 5		01
Atten	npt any f	four questions from Q-2 to			
Q-2		Attempt all questions		(	(14)
	(a)	Explain SU carburettor with	n neat sketch.		<b>(7)</b>
	<b>(b)</b>	-	ied charge engine with neat sketch		<b>(7</b> )
Q-3		Attempt all questions		(	(14)
	<b>(a)</b>	Explain P-θ diagram in C.I.	engines.		<b>(6)</b>



**(b)** 

Which information getting from the valve timing diagram? Sketch and explain



**(6)** 

	<b>(b)</b>	What is pre-ignition? Compare Knocking in S.I and C.I engines.	
	<b>(c)</b>	Write notes on properties of coolant and anti-freeze solution?	(5)
Q-5		Attempt all questions	(14)
	(a)	Classify various lubrication systems. Explain with a neat sketch the splash	<b>(7</b> )
		lubrication system.	
	<b>(b)</b>	Write short note on magneto ignition system with neat sketch.	<b>(7)</b>
Q-6		Attempt all questions	(14)
	(a)	Write a short note on three way catalytic converter with neat sketch.	<b>(7)</b>
	<b>(b)</b>	What are the purposes of supercharging the I.C. Engine? Classify types of superchargers and explain any one of them.	(7)
Q-7		Attempt all questions	(14)
	(a)	Effect of different pollutants on human and plant life.	<b>(7)</b>
	<b>(b)</b>	Explain any one method for measurement of brake power of an engine with neat sketch.	(7)
Q-8		Attempt all questions	(14)
	(a)	Discuss Heat balance sheet for four stroke CI engine.	<b>(7)</b>
	<b>(b)</b>	Explain measurement of indicated power of multi cylinder engine by Morse test.	<b>(7)</b>

