## CBCS SCHEME

USN												18AU44
		T.	0111	th.	Sar	mas	etai	r R	F	De	egree Examination, June/July 202	23
		F	our	LII	361	IIICS					notive Engines	
								_	ut	011		Marks: 100
Tim	e: 3	hrs	•									
	No	te:	Ansı	ver	any	FIV	$E_{j}$	full	que	stio	ns, choosing ONE full question from each i	nounte.
											Module-1	
1	a.	Wit	hai	neat	diag	gram	ı, ez	xpla	in t	he c	construction and working of 4 stroke spark ig	nition engine. (10 Marks)
												(10 Marks)
	b.	Stat	te the	e co	mpa	iriso	n b	etw	een	Z SU	roke and 4 stroke engines.	(,
								-	4		OR	(10 Marks)
2	a.	Exp	olain	the	cyc	le ar	nd c	lies	el cy	cle	with PV and TS diagrams.	(10 Marks)
	b.	Wit	th ne	at P	V a	nd T	'S d	liag	ram	exp	blain the dual cycles.	(10 Marks)
						{					Module-2	
3		Wr	ite n	ote	on f	ollo	win	g :				
	a.		ton a		pisto	on ri	ngs					
	b.		whe								A	
	c.		et an	4	Name of the last	ist va	alve	es				(20 Marks)
	d.	Cra	nks.	haft.						(		38.
								- 12		and the second	OR	(10 Marks)
4	a.	Ex	plair	the	wo	rkin	go	fsii	nple	e fixe	ted venturi carbonator with a neat diagram.	(10 Marks)
	b.	Ex	plair	1 the	dif	tere	nt t	ype	SOI	nozz	zles with a neat diagram.	,
											Module-3	(06 Marks)
5	a.	W	rite t	he n	ece	ssity	of	usi	ng th	ne co	ooling system in IC engines.	(08 Marks)
	b.	W	ith a	nea	t dia	agrai	m e	xpla	ain t	he to	forced circulation cooling system.	(06 Marks)
	c.	W	hat a	re tl	ne a	dvar	ntag	ges a	ana	aisa	dvantages of liquid cooling system?	,
					d	7					OR	(10 Marks)
6	a.	W	ith a	nea	t dia	agra	m e	xpl	ain t	he v	working of dry lubrication system.	(10 Marks)
	b.	W	rite	a no	te o	n pe	troi	t lu	bric	atior	n system.	(04 Marks)
	c.	W	rite 1	he a	adva	ıntaş	ges	of li	ubri	catic	on system.	(
		1	4					4	7		Module-4	(12 Marks)
7	a.	W	ith a	nea	ıt di	agra	m,	exp	lain	the	construction and working turbo – charger.	(12 Marks)
	b.	W	hat i	s pu	ırpo	se o	f tu	rbo-	-cha	rgei	rs for automobiles? Explain.	(00 1/14/143)
					B.	<b>4</b>	and inter				OR	· - 0 (40 N/L - L)
8	a.	W	hat a	are t	he d	liffe	rent	t mo	difi	catio	ons to be made in engine to adopt super charge	ging? (10 Marks) (10 Marks)
	b.	W	rite	dow	n th	ie ac	lvar	ntag	es a	nd d	disadvantages of turbo charger.	(IU Marks)
•									Ä,		Module-5	
9	a.	W	ith a	ne:	at di	iagra	am e	exp!	lain	the	construction and working of two stroke SI er	igine. (10 Marks
	b.	E	xpla	in th	ne p	ost t	imi	ng o	diag	ram	as for 2 – stroke SI and CI engines with nece	ssary diagrams (10 Marks
							Kan	#				(10 Marks
						A		<b>&gt;</b>			OR	(10 Mawka
10	) a.	W	/rite	a no	ote o	on so	cave	engi	ing p	roc	tess in 2 – stroke engines.	(10 Marks
179	b	. V	/rite	a no	ote (	on : i	i) S	cav	engi	ng p	pump .	
				A							lown	(10 Marks
					Y	111)	) BI	ow	– do	wn		<b>(</b> ==

(10 Marks)

Important Note: 1. On completing your answers, compulsorily draw diagonal cross lines on the remaining blank pages.

2. Any revealing of identification, appeal to evaluator and /or equations written eg, 42+8 = 50, will be treated as malpractice.