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	(Regula	tion	2015	)								
ation: Three hours					Ν	laxir	num	: 100	) Ma	rks		
	Answer Al	LL Ç	uesti	ons								
	PART A - (10	x 1	= 10	Mar	ks)							
In four stroke engine	each cylinder has										CC	)1-R
(a) One valve	(b) Two valve	(	c) Tł	ree	valve	9		(	(d) F	our	valve	)
Exhaust valve temper	rature is about										CC	)1-R
(a) 35 degree celcius		(	b) 10	0 de	gree	cels	ius					
(c) 150 degree celsius			(d) 500 degree celsius									
On modern four strok	e engines the exhaust valve opens just					CO2-R						
(a) Before TDC	(b) After TDC	(	c) Be	fore	BD	С		(	(d) A	fter	BDC	2
In a diesel engine the fuel injection pressure is in the range										CC	)2-R	
(a)100 to 170 atm	(b) 60 to 70 atm	(	c) 30	to 4	0 atr	n		(	(d) 2	0 to 2	25 at	tm
Engine torque is highest at									CC	)3-R		
(a) High speed	(b) Low speed	(	c) In	term	ediat	e spe	eed	(	(d) V	'ery ]	high	
In the diesel engine the compression ratio is as high as						CO3- I						
(a) 10:1	(b) 15:1	(	c) 5:	1				(	(d) 1	:9		
The device for smoo	othing out the powe	er in	npuls	es fi	om	the	engi	ne			CC	)4-R
(a) Flywheel	(b) Camshaft	(	c) Cr	anks	haft			(	(d) C	lutel	1	
	B.E. / B.E. / It ation: Three hours In four stroke engine (a) One valve Exhaust valve temper (a) 35 degree celcius (c) 150 degree celsius (c) 150 degree celsius (c) 150 degree celsius (a) Before TDC In a diesel engine the (a) Before TDC In a diesel engine the (a) 100 to 170 atm Engine torque is high (a) High speed In the diesel engine the (a) 10:1 The device for smo called (a) Flywheel	Reg. No. :Question PagB.E. / B.Tech. DEGREE IEleMechanicaIDEME903 - AUTOM(Regulaation: Three hoursAnswer AIPART A - (10)In four stroke engine each cylinder has(a) One valve(b) Two valveExhaust valve temperature is about(a) 35 degree celcius(c) 150 degree celcius(a) Before TDC(b) After TDCIn a diesel engine tree injection presse(a) Before TDC(b) After TDCIn a diesel engine tree(a) 100 to 170 atm(b) 60 to 70 atmEngine torque is highest at(a) High speed(b) Low speedIn the diesel engine the compression ratio(a) 10:1(b) 15:1The device for smouthing out the power(a) Flywheel(b) Camshaft	Reg. No. :   Question Paper   B.E. / B.Tech. DEGREE EXAM   G.B. (All and the desel engine explanation is and the diesel engine the tuel injection pressure is a solut   (a) 10 to 170 atm (b) 60 to 70 atm (c)   (a) Before TDC (b) After TDC (c)   (a) Before TDC (b) 60 to 70 atm (c)   (a) 100 to 170 atm (b) 60 to 70 atm (c)   (a) 100 to 170 atm (b) 15:1 (c)   (a) High speed (b) Low speed (c)   (a) 10:1 (b) 15:1 (c)   (a) 10:1 (b) 15:1 <td>Reg. No. :Question Paper CodB.E. / B. Tech. DEGREE EXAMINA ElectiveB.E. / B. Tech. 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DEGREE EXAMINATION, NOV 201 ElectiveGuestion Pagineering ISUME903 - AUTOMOBILE ENGINEERING (Regulation 2015)Machanical Engineering15UME903 - AUTOMOBILE ENGINEERING (Regulation 2015)Maximum Answer ALL Questions PART A - (10 x 1 = 10 Marks)In four stroke engine each cylinder has (a) One valve (b) Two valve (c) Three valve Exhaust valve temperature is about(a) One valve (b) Two valve (c) Three valve Exhaust valve temperature is about(a) 35 degree celcius(b) 100 degree celsius(c) 150 degree celcius(d) 500 degree celsius(a) 35 degree celcius(d) 500 degree celsius(a) 100 degree celsius(d) 500 degree celsius(a) 100 to 170 atm(b) After TDC(c) Before BDCIn a diesel engine the tuel injection pressure(a) 100 to 170 atm(b) 60 to 70 atm(c) 30 to 40 atmEngine torque is highest at(a) 100: 170 (b) 15:1(a) 10:1(b) 15:1(c) 5:1The device for smoothing out the power impulses from the engin call</td><td>Reg. No. :Question Paper Code: 59703B.E. / B. Tech. DEGREE EXAMINATION, NOV 2018 Elective Mechanical Engineering 15UME903 - AUTOMOBILE ENGINEERING (Regulation 2015)AutomEgo - AUTOMOBILE ENGINEERING (Regulation 2015)Maximum: 100Answer ALL Questions PART A - (10 x 1 = 10 Marks)In four stroke engine each cylinder has (a) One valve (b) Two valve (c) Three valve Exhaust valve temperature is about(a) 35 degree celcius (c) 150 degree celsius(b) Two valve (c) Three valve (c) 150 degree celsius(a) 35 degree celcius (c) 150 degree celsius(b) Two valve (c) Three valve celsius(a) 35 degree celcius(b) After TDC(c) Before BDC(a) Before TDC(b) After TDC(c) Before BDC(a) 100 to 170 atm(b) 60 to 70 atm(c) 30 to 40 atm(c) 11(b) 15:1(c) 5:1(a) 10:1(b) 15:1(c) 5:1(a) 10:1(b) 15:1(c) 5:1(a) 10:1(b) 15:1(c) 5:1<td>Reg. No. :Question Paper Code: 59703B.E. / B. Tech. DEGREE EXAMINATION, NOV 2018 ElectiveB.E. / B. Tech. DEGREE EXAMINATION, NOV 2018 ElectiveBLE / B. Tech. 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8.	In an operating engine the hottest part of the piston is the					CO4-R		
	(a) I	Head	(b) Ring grooves	(c) Skirt	(d) Pin bo	osses		
9.	The calle	ratio of the cylin	der volume at BDC an	nd the clearance volume is		CO5-R		
	(a) (	Clearance ratio	(b) Volumetric ratio	(c) Compression ratio	(d) Tensi	le ratio		
10.	Due	to heat of combus	stion with increase in te	emperature the molecules		CO5-R		
	(a) N	Move slower	(b) Vaporize	(c) Move faster	(d) Evapo	orate		
			PART - B (5 x)	2= 10 Marks)				
11.	Wha	at are the types of		CO1-R				
12.	Define turbo chargers					CO2-R		
13.	Wha	at is slip joints?		CO3-R				
14.	Wha	at are the types of		CO4-R				
15.	Defi	ne bio-diesel		CO5-R				
			PART – C (5	x 16= 80Marks)				
16.	(a)	Illustrate the veh	icle construction and d	ifferent layouts of it.	CO1-U	(16)		
	Or							
	(b)	What are the con	nponents of IC engine?	and Explain in detail.	CO1-U	(16)		
17.	(a)	Describe the enconverter.	igine emission contro	l by three way catalytic	CO2-U	(16)		
Or								
	(b)	Describe the ele for SI-engine.	ectronically controlled	gasoline injection system	CO2-U	(16)		
18.	(a)	Describe the wor	king and construction	of the gear box.	CO3-U	(16)		
			Or					
	(b)	Illustrate the Hot detail.	chkiss drive and torqu	e tube drive and explain in	CO3-U	(16)		

19. (a) What is steering geometry? Give details about its types and CO4-U (16) explain in detail.

## Or

CI engines.

	(b)	Define hydraulic braking system and explain with neat sketch.	CO4-U	(16)
20.	(a)	Describe the details about LPG and bio-ethanol.	CO5-U	(16)
	(b)	Describe the combustion and emission characteristics of SI and	CO5-U	(16)