Code No: 126EH

R13

JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY HYDERABAD B. Tech III Year II Semester Examinations, May - 2016 AUTOMOBILE ENGINEERING (Common to ME, MCT)

Time: 3 hours		(Common to	(IVIL)	N	Max. Marks: 75	
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Part A i consists	s compulsory w of 5 units. Ans		marks. Answer question from e	2 · · · · · · · · · · · · · · · · · · ·	n Part A. Part B question carries	!
		PAR'	Г - А			
			. ! . !		(25 Marks)	
1.a) What is		retor in S.I. engi		•••	[2]	
		rements of diesel		n.	[3]	
-	-	ce and retard me	•		[2]	
	-	ng system of auto			[3]	
•	e the functions of		: :	: :	507	:
4 1 1	shock absorber	s are used in aut	omobile.		[2] [3]	٠:
-		naster cyclinder?			[2]	
h) Explain	about the king p				[3]	
i) What are	e the advantages	s of using hydrog	gen as fuel?		[2]	
j) What are	e the merits and	demerits of bion	nass?		[3]	
	*****	PAR'	Γ - Β΄΄΄			
					(50 Marks)	
2.a) Discuss	about the fuel s	upply system in	S.L. engine			
		ent types of air fi	-		[5+5]	
		0		!!		
3.a) Explain	about the forma	tion of spray in (C.I. engine.	··	··	**
		is and body comp		nobile.	[5+5]	
			_			
		ne term "Ignition				
b) Sketch a			ition systems us	ed in automoti	ve engines.[5+5]	:
			R		·i	٠:
		he liquid cooling		diagram.	F	
b) Discuss	about the bendi	x drive mechanis	sm.		[5+5]	
6.a) Discuss	the working pri	nciples of				
			: :	: :	: :	:
·ii) Hotch	nkiss drive.	!	!	!		٠
b) What are	e the functions of	of universal joint	and Propeller sh	naft?	[5+5]	
			R			
		single plate clute		agram.	F# #3	
		ential rear axle w			[5+5]	_
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