Total No. of Questions: 8]	90	SEAT No.:	
P9069		[Total	No. of Pages : 2
	[6178]-4		
	F.E.		
	ECHANICAL ENC		
(2019 Pattern) (Seme	ester - I/II) (102003)) (Credit Sy	vstem)
Time: 2½ Hours]			Max. Marks : 70
Course Outcome:	-£	······································	_
	of road vehicles and theil usic parts and transmissio		
CO 5: Discuss several man	ufacturing processes and	d identify the si	
CO 6: Explain various typ	es of mechanism and its	application.	
Instructions to the candidates:			4
1) Solve Q For Q.2, Q.3 or Q		3 20 ()`
2) Assume suitable data if ne3) Figures to the right indicates	<u> </u>	3	
	2	(2)	
>	0	0,	
Q1) a) List the specifications	of vehicle and explain	n any four sp	ecifications of
Light Motor Vehicle (I	LMV)		[10]
b) Explain Electric Vehic	le with neat diagram.		[8]
6	OR		
	2' 26		
(Q2) a) Explain with neat sket	ch the various compon	ents in SI eng	gine. [19]
	nd Compare specification	on of LMV and	d Heavy motor
vehicle (HMV).			[8]
6 X		0	
Q3) a) Explain steering system	m with neat diagram	00'	[10]
		2,0	
b) Explain with neat sket	ch the differential gearl	XOX	[7]
	OR C	7, 10,	
Q4) a) Explain antilock braki	ng system in vehicle wi	ithneat diagra	ım. [10]
- , , <u>-</u>		3	
b) Explain with neat sket	ch the working of Disc	огаке.	[7]

P.T.O.

Q 5)	a)	Explain with neat sketch the forging process. State its advantages and	d	
		disadvantages. [10]	
	b)	Explain with neat sketch drilling chamfering, grooving, and taper turning	g	
		operations. [8		
		OR		
<i>Q6</i>)	a)	Explain with near sketch piercing, lancing, perforating, deep drawing, and	d	
20)	u)	embossing sheet metal operations. [10]		
		Tro	1	
	b)	Explain with part sketch and agating	1	
	b)	Explain with neat sketch sand casting. [8	J	
Q 7)	a)	Explain with neat sketch the working of air conditioner. [10]]	
	b)	Explain with neat sketch the working of water purifier. [7]	1	
	ŕ	OR A STATE OF THE	-	
(10)		9.	1	
Q8)	a) V	Explain with neat sketch solar water heater, State its advantages. [10]	_	
	b)	Explain the working of electric geyser. [7]]	
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