Total No	o. of Questions : 4]	EAT No.:		
P5005	[6187]-405	[Total	No. of Page	s : 1
	T.E. (Mechanical Engineering) (Automob	oile)(Ins	em)	
	ADVANCED FORMING AND JOINING I	, ,	,	
(201	19 Pattern) (Semester - 1) (Elective - I) (Th	eory) (3	602045 A))
Time: 1 Hour		• / \	ŕ	
	ions to the candidates:	[1	Max. Marks .	; 30
1)	All questions are compulsory i.e. Solve Q.1 or Q.2, Q.3	or Q.4.		
2)	Neat diagrams must be drawn wherever necessary.			
3)	Figures to the right indicate full marks.			•
		30	\sim	
Q1) a)	State the Surface defects identification methods a	and remed	lial process	.[5]
b)	With a schematic explain deep drawing operatio	n.		[5]
c)	Explain in detail various challenges in forming	rocess.		[5]
	OR OR			
02)		۳.,	. 1	1 4
Q2) a)	Explain why in a deep drawing reduction at	first stag	ge is limited	
	maximum to 50%.			[5]
b)	Explain in detail, the effect of friction in forming	g operation	n.	[5]
c)	State and classify the bulk deformation & sheet n	netal work	ing proces	ses.
				[5]
				(ر)
Q3) a)	Explain with sketch, working of Laser beam for	ming.	23	[5]
b)	With a schematic explain Stretch forming operat		30	[5]
	.0.		18.	
c)	Explain in detail HERF (Explosive Forming) tec	nniques.	0.	[5]
	OR	5 3	,	
Q4) a)	Explain in detail Incremental Sheet forming proc	ess with	neat sketch	.[5]
b)	Explain with suitable diagram the Magnetic Puls	se forming	g process.	[5]
c)	Explain with suitable diagram working of Electrocesses.	tro Hydr	aulic Form	ing [5]

