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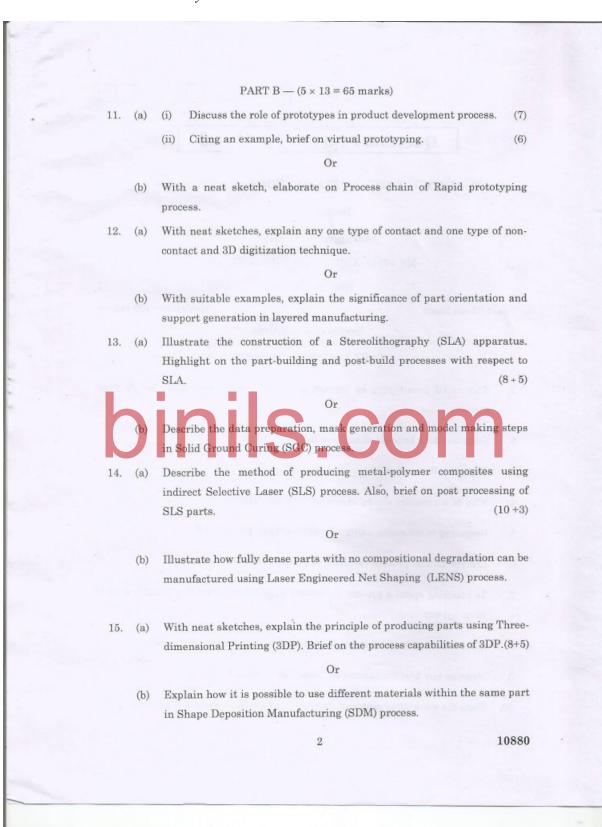
	Reg. 1	No.:	
	Question Pa	per Code : 1	0880
	M.E./M.Tech. DEGREE B	EXAMINATIONS, A	APRIL/MAY 2023
	Sec	cond Semester	
	Manufac	cturing Engineering	g
	MF 4204 – ADD	ITIVE MANUFAC	TURING
	(Re	egulations 2021)	
Time: T	Three hours	ATT	Maximum : 100 mar
		er ALL questions.	ects weeking the and
	PART A -	$-(10 \times 2 = 20 \text{ mark})$	(s)
2. St	ate any four benefits of addit hat is a Bezier curve?	tive manufacturing.	com
4. W	hy do we require slicing in ac	dditive manufactur	ing?
5. Re	ecoating is not easier using s	tereolithography pr	rocess- why?
6. Li	List the critical process variables of Fused deposition modelling.		
	s scanning speed a process p our answer.	parameter in Select	ive Laser Centering?'- Just
8. S	tate the advantage of sinterin	ng over 'melting and	d fusing' of powders.
9. M	Iention any four limitations o	of Three-dimensions	al Printing.
10. S	tate the working principle of	Ballastic Particle M	Manufacturing process.

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PART C — $(1 \times 15 = 15 \text{ marks})$

16. (a) A castle made of paper (Fig.16a) is to be made for an exhibition. Explain the procedure to produce the castle using Laminated Object Manufacturing (LoM) technique. List the advantages and limitations of LoM. (12+3)



Or

(b) A part as shown in Fig.16b is to be manufactured using titanium alloy powder. Explain the manufacture of part using Electron beam melting process. State the advantages and limitations of the process. (12+3)



Fig 16b. Part made of titanium alloy

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