		Question Pap	er Code: 59051				
	B.E.	B.Tech. DEGREE E	XAMINATION, DEC 202	20			
		Interdisciplinar	y Elective Course				
		Mechanica	l Engineering				
	1	5UGM951 – SMAR	T MANUFACTURING				
		(Common to Infor	rmation Technology)				
		(Regula	tion 2015)				
Dur	ation: One hour		Maximu	m: 30 Marks			
		PART A - (6	x 1 = 6 Marks				
	(Answer any six of the	he following questions)				
1.	Which country coined	d the term 'Industry 4	1.0'	CO1- R			
	(a) India		(b) China				
	(c) Canada		(d) Germany				
2.	Cloud computing rela	nted with		CO1- R			
	(a) Industry 1.0	(b) Industry 2.0	(c) Industry 3.0	(d) Industry 4.0			
3.	is no	ot an example of addit	tive manufacturing.	CO2- R			
	(a) CNC	(b) SLA	(c) SLS	(d) DMLS			
4.	is known as the processes of extracting knowledge or design information from anything man-made and reproducing it based on the extracted information.						
	(a) Re- Engineering		(b) Reverse Engineering	ng			
	(c) Both (a) and (b)		(d) none of the above				
5.	Which of the following	CO3- R					
	(a) Part picking	(b) Welding	(c) Spray painting	(d) All of the above			
6.	The main objective(s	CO3- R					
	(a) To minimize the l	abour requirement	(b) To increase p	(b) To increase productivity			
	(c) To enhance the life of production machines (d) All of the above			ve			

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7.	What is the size of the IPv6 addressed?							
	(a) 32 bits	(b) 64 bits	(c) 128 bits	(d) 2	56 bits			
8.	Which is the input in IoT value chain?					CO4- R		
	(a) Devices/Sensors	(b) Open Data	(c) Corporate Databases	(d) A	All the above	e		
9.	Example for private cloud vendor					CO5- R		
	(a) Eucalyptus	(b) Open nebula	(c) Both a & b	(d) N	None of the	above		
10.	Cloud bursting used in					CO5- R		
	(a) Private cloud	(b) Public cloud	(c) Hybrid cloud	(d) A	All the above	e		
		PART –	B (3 x 8= 24 Marks)					
		(Answer any thr	ee of the following questi	ons)				
11.	Explain about CPS an	d IoT			CO1-U	(8)		
12.	What is meant by additive manufacturing? Explain about Selective CO2-U Laser Sintering method with neat sketch and mention the advantages and disadvantages of this method.							
13.	Explain about robot applications in material transfer and machine CO3-U loading.							
14.	Examine the applicab Smart Grid.	ility of future IC7	Γ-empowered interaction in	n rich	CO4- App	(8)		
15.	Compare any four technology, billing, so	•	with respect to hyper sor and API access.	visor	CO5- Ana	(8)		