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## **Question Paper Code: 59724**

## B.E. / B.Tech. DEGREE EXAMINATION, NOV 2022

			Elective				
		Mecha	nical Eng	ineering			
	15UM	E924 - Comj	outer Integ	grated Ma	nufacturing		
		(Re	gulation 2	2015)			
Dura	ation: Three hours				Maxin	num: 100 Marks	
		Answ	er ALL Q	uestions			
		PART A	- (10 x 1 =	= 10 Mark	s)		
1.	Computer Integrated Manufacturing is				CO1- U		
	(a) Extension of CAM	1	(b) Man	agement	philosophy		
	(c) A type of automati	on	(d) Link	between	CAD and CAM	[	
2.	CAD prepares models	with comput	ter which	are		CO1- U	
	(a) Dynamic patterns	(b) Static	patterns	(c) Geon	netric patterns	(d) None	
3.	In OSI model accounting, addressing and routing functions of the systemare provided by:				CO2- R		
	(a) application layer		(	b) networ	k layer		
	(c) transport layer	ort layer (d) physical layer					
4.	is the tech people within a site in	nnology that on a small area.		he machir	nes and	CO2- R	
	(a) LAN (I	o) MAN	(c)	WAN	(d) None of t	he above	
5.	Computer aided proce	ss planning i	S .			CO3- U	
	(a) Extension of CAM			(b) first step in design before CAD			
	(c) a type of automation (d) link between CAD ar			and CAM			
6.	Material Requirement	aterial Requirements Planning DOES NOT include Co				CO3- U	
	(a) material price		(b)	) bill of m	aterial		
	(c) inventory level		(d)	production	on schedule		

7.	Which of the following is phases of shop floor control					
	(a) Order release (b) Order scheduling					
	(c) Order progress (d) All of the above					
8.	Which is not a component of FMS system	C	CO4- U			
	(a) Work stations (b) Material handling					
	(c) Computer control system (d) process planning					
9.	What are all the effect of production planning and control	C	CO5- U			
	(a) Material factors (b) Human factors (c) Both A and B (d)	ctors (b) Human factors (c) Both A and B (d) Either A or B				
10.	LOB stands for	C	CO5- U			
	(a) Line of benefit (b) Line of balance					
	(c) Law of balance (d) None of the above					
	PART - B (5 x 2= 10 Marks)					
11.	List the available CAD packages CO1-					
12.	Explain the types of communication system	C	CO2- U			
13.	Explain the group technology concept	C	CO3- U			
14.	. Explain about SFC					
15.	. State the Concept of material Requirement Planning					
	$PART - C (5 \times 16 = 80 \text{ Marks})$					
16.	(a) Explain the various geometric features of a CAD package	CO1- U	(16)			
	Or		(4.6)			
	(b) Explain the 2D geometric transformation with example	CO1- U	(16)			
17.	(a) Explain the Seven layers of OSI Model in detail	CO2- U	(16)			
	Or	CO2 II	(1.6)			
	(b) Explain the different types of communication system in CIM	CO2-U	(16)			
18.	(a) What is Part Families Classification and Coding? Or	CO3- U	(16)			
	(b) Explain facility design using G.T and its benefits of GT.	CO3- U	(16)			

19. (a) Explain the Barcode Technology in automatic data collection CO4- U (16) system? Or (b) Explain the material handling and data storage system CO4- U (16)Briefly explain the effect of production planning and control CO5- U 20. (a) (16)system Or

(b) Explain computer integrated production management system CO5-U (16)