<b>A</b>	
$\mathbf{A}$	
4 B	

# **Question Paper Code: U7208**

## B.E./B.Tech. DEGREE EXAMINATION, APRIL 2024

### Professional Elective

## Mechanical Engineering

### 21MEV208 - PRODUCTION PLANNING AND CONTROL

		(Reg	ulations 2021)		
Dur	ation: Three hour	'S		Maximum:	100 Marks
		Answei	ALL Questions		
		PART A -	$(10 \times 1 = 10 \text{ Marks})$		
1.	U I	orice is Rs 10 per unit, 5,000. What is break-e	variable cost is Rs.6 peven point?	r unit and	CO1-U
	(a) 500 units	(b) 1,000 units	(c) 1,250 units	(d) None or	f the above
2.	Manufacture of	products or assemblies	using a continuous proce	ss is called	CO1- U
	(a) job production		(b) mass production	(b) mass production	
	(c) batch produc	etion	(d) process producti	ion	
3.	Work study exa	mines			CO1-U
	(a) method		(b) duration of work		
	(c) both (a) and (b)		(d) None of the abo	ve	
4.	In process chart	s, the symbol used for s	storage is		CO1-U
	(a) Circle	(b) Square	(c) Arrow	(d)	Triangle
5.	Which of the following is not a part of Five M's?				CO1-U
	(a) Material	(b) Machine	(c) Motion	(d)	Method
6.	The price paid b	by the buyer is			CO1-U
	(a) Cost value	(b) Use value	(c) Esteem value	(d) Exchan	ge value
7.	Gantt chart is m	ostly used for			CO1-U
	(a) Routing		(b) Scheduling		
	(c) Follow up		(d) Inspection and o	uality control	

8.	The	The bill of material does not consists of			CO1-U		
	(a) I	Part number		(b) Specifications of part			
	(c) 1	Name of the part		(d) Price of the part			
9.	The	The cost of insurance and taxes are included in			CC	<b>)1-</b> U	
	(a) c	cost of ordering		(b) set up cost			
	(c) i	nventory carrying	g cost	(d) cost of shortages			
10.	The	time period betw	een placing an order	its receipt in stock is known as	C	O1-U	
	(a) I	Lead time	(b) Carrying time	(c) On Carrying time	(d) Over t	ime	
			PART - B (5	x 2= 10 Marks)			
11.	Stat	e any four steps t	o improve margin of s	safety.	CO	1 <b>-</b> U	
12.	Enumerate the recording techniques for method study.				CO1-U		
13.	List the various allowances considered during time study.					CO1-U	
14.	Brief about master Scheduling.				CO1-U		
15.	. Distinguish between MRP II and ERP.		CO1-U				
			PART – C (	5 x 16= 80 Marks)			
16.	(a)	List the various explain.	functions of produc	tion planning and control and	CO1- U	(16)	
	(1.)	<b></b>	Or	G	CO1 11	(1.6)	
	(b)	Explain about st	andardızatıon, sımplı	fication and specialization.	CO1- U	(16)	
17.	(a)	Construct a SI application.		t, nut and washer assembly	CO2- App	(16)	
	(1.)	A1	Or	C 1 14 4 C 4 1	CO2 A	(1.6)	
	(b)	list out its Limit		for bolt nut manufacturing and	CO2- App	(16)	
18.	(a)	What is value a value analysis.	analysis? Describe th	e basic steps involved in the	CO1 -U	(16)	
		-	Or				
	(b)	=	ps involved in Process planning.	ess planning and list out the	CO1 -U	(16)	

19.	(a)	Explain the process flow in Master Scheduling	CO1- U	(16)
		Or		
	(b)	What are the components of MRP	CO1- U	(16)
20.	(a)	Discuss the various basic elements of JIT that must be addressed for successful JIT implementation.	CO2- App	(16)
		OR		
	(b)	Explain the Costs associated with inventories system.	CO2- App	(16)