## CBCS SCHEME

USN	TEC	TATO					15ME62
1	No.	COAL C			. T	V Ton /Fab	2021
The state of the s		1		and the second second	v 9 40	on, Jan./Feb.	2021
		( ) * ) C	ompute	er Integr	ated Man	ufacturing	
Tin	ne:	hrs.			100		Max. Marks: 80
1 1	BANC	MLO		**	ONEC	# c	Y
	N	ote: Answer a	iny FIVE fu	ll questions, cl	hoosing ONE fu	ill question from	each module.
					dule-1	0-	
1	a.			elements of C		65	(06 Marks)
	b.			Andrew Aller	for automation.		(04 Marks)
	c.						n rate is 20 unit/hr.
			rtain week,	the machine p	roduced 1000 p	parts and was idle	for the remaining
		period.	ine the prod	uction capacity	ofmachine	7	
	ř.			ation of machi			
		,			A = 90% and W	= 80%.	(06 Marks)
				- <b>P</b>	OP		,
2	a.	What are the	Transfer M	echanisms and	l explain any on	e type of transfer	mechanism used to
-	u.	A	ACCOUNTY.		to another statio		(08 Marks)
	b.						me of 20 sec. The
							nen a stop occurs it
					termine the follo		D-
			_	ion Time, Tp	1 400	Production Rate,	
		iii) Line	Efficiency, F		iv) Proporti	on of down time	(08 Marks)
				Me	odule-2		
3	a.	List and exp	lain any two	functional are	as of CAD Syste	em.	(08 Marks)
	b.	•	//	th suitable exa	William .	0,	
		,	Transformati	67 40	anslation	4	
		111) Rota	tion and Scal	ing iv) C	oncatenation		(08 Marks)
		200 at 1	ver milio		OR C	7	
4	a.	William M		or flow chart,	explain the in	formation flow in	n a retrieval – type
	31	CAPP Syste		Wingston.	0		(08 Marks)
	b.	List the va	rious function	ons performed	by production	n planning and o	control department. (04 Marks)
		Draw the flo	w chart of th	e MRP System	n and explain in	brief	(04 Marks)
	0.	Jan the he		And explained an area and		Luces	
-	17 17	33714 !- EN (!	0/2011-i		odule-3	CHIPPING CARREST	(Of Mawks)
5	a. b.	ACC	100m 17	n any one type lications of FM			(06 Marks) (04 Marks)
	c.			handling syste			(04 Marks)
	Γ,	Explain 715/	TO Material	A System			the facility.
_		To 1 ' 1'CC	efficients, s	1 101	OR		(00 7/11)
6	a.	The second second second		ls of line balan			(09 Marks)
	b.	Brieffy expl	ain compute	rized line balar	icing.		(07 Marks)
					<u>odule-4</u>		
7	a.	Sketch and	explain basic	components of	f CNC.		(06 Marks)

Important Note: 1. On completing your answers, compulsorily draw diagonal cross lines on the remaining blank pages.

2. Any revealing of identification, appeal to evaluator and /or equations written eg, 42+8 = 50, will be treated as malpractice.

(04 Marks)

(06 Marks)

Differentiate between Manual Part Programming and Computer Assisted Part Programming.

Explain in brief, different types of statements used in APT language.

## 12MEe5

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ngarajai 180	WO I SE CONTROLL SE SECONDE SE SE SE LE MENTE		
	6 2 5 6		
Access ( BVD )	15 *****		
(05 Marks)	Explain Big-data and cloud computing.  Explain, how IOT influence in industrial automation.	.o	
(05 Marks) (06 Marks)	Explain IOT applications in manufacturing.  Explain Big-data and cloud computing.	a. b.	01
	ЯО		
(04 Marks)	Explain briefly hybrid manufacturing process.	.o	
(06 Marks)	List and explain any one type of additive manufacturing process.	.d	
(06 Marks)	List the advantages, disadvantages and applications of additive manufacturing.	e.	6
lekali in	Light A.S. 703 repealed bandling granter and the last and	ill ill	
(05 Marks) (05 Marks)	What are end effectors, explain in brief different types of it in robot application. Explain different types of robot sensors.	b.	
(06 Marks)	List and explain any one type of robot Configurations.	a.	8
	ЯО		