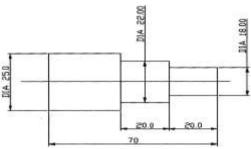
No. of Printed Pages : 4		d) Cannot be readily interfaced with microprocess					rocessor-
Roll No	181755/171755/121755		Which	pased controller of the following cal motion into electri			translate (CO-1)
5th Sem. / Mech	anical Engg	•	a) E	Encoder	b) 1	transducer	( ,
Subject : CNC Machine			igital system monito Ione of the above	ring			
Time : 3 Hrs. M.M. : 100		Q.6 1	a) C o) F	_ is not types of NC p Card readers Punched tape reader		m reader? (C	O-1)
Note: Multiple choice Quest compulsory		Q.7	d) M The fu	aser taper reader lechanical tape read nction of sideways ir Reduce friction	CNCi	is to(C Reduce Wea	
machine is called a) Tool on setting	pecific length, away from the (CO-1) b) Specific setting		c) Ir d) A	mprove smoothness Ill of the mentioned les are also know as	٥)	11000001100	(CO-2)
(CO-1)	d) Post setting considered to be a type of	•	c) m	nodal codes nachine codes niscellaneous codes	b) :	spindle spee	d codes
<ul> <li>a) Point-to -point control</li> <li>b) Straight line controlled</li> <li>c) Continuous path-cont</li> <li>d) Servo-controlled mac</li> </ul>	d machine rolled machine	i	nterpo a) G	n of the following olation clockwise? 500	b)	e will give G01 G02	circular (CO-4)
Q.3 The purpose of using remechanism in CNC machina) To reduce the setup tirb) For higher surface finic) For carrying out up mil	me sh	Q.10 \ 6	Ńhich absolu a) С	692 of the following cooute coordinates? 692 691			amming in (CO-2)
Q.4 Astepper motor a) Can control the a	a) Can control the angular displacement quit		SECTION-B  lote: Objective type questions. All questions are compulsory.  10x1=10				
	gular displacement precisely ositioning of tables and tools		are als	CNC control sytem v so called as nd PLC	vhich ł	has feedbac	
(1)	181755/171755/121755			(2)	1817	755/171755	/121755

Q.13	The axis perpendicular to work holding surface of a	(
Q.14	CNC machine is (CO-3) The two feedback device used in CNC machine	
	areand (CO-1)	
Q.15	The input command, In servo motor is in the form	
Q.16	of (CO-1) G-codes are also known as (CO-1)	
Q.10 Q.17	code will give circular interpolation anti-	
Q. 17	clockwise (CO-2)	
Q.18	code will give circular interpolation anti-	
	clockwise. (CO-3&CO4)	
Q.19	Expand LVDT (CO-1)	
Q.20	Give binary equivalent of 27 (CO-1)	
	SECTION-C	
Note:	Short answer type questions. Attempt any twelve	(
	questions out of fifteen questions. 12x5=60	
Q.21	Enlist the advantages of DNC over conventional	(
O 22	machines (CO-1) Explain the type of DNC (CO-1)	
	Describe the rules for axis identification in CNC (CO-2)	(
	Write short note on servo motor (CO-1)	
	Explain roller type slideways. (CO-5)	
Q.26	Describe various swarf remove methods in CNC	_
0.27	machines. (CO-5)	Γ
Q.27 Q.28	Write short note on 18 degree ATC (CO-1) Explain various functions performed while	
Q.20	management of toolroom (CO-1)	
Q.29	Write short note on tachometers. (CO-1)	
Q.30	Explain the concept of tool radius compensation (CO-7)	
Q.31	Describe mirror image and its command (CO-7)	
Q.32	What are the common faults in PC components of NC operations. (CO-5)	
Q.33	operations. (CO-5) Discuss the concept of A.I (CO-6)	
Q.34	Write a finishing cut program of step turning. (CO-6)	
	(0)	

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Q.35 Write a finishing cut program of step turning. (CO2&CO3)



## **SECTION-D**

**Note:** Long answer type questions. Attempt any two out of three questions. 2x10=20

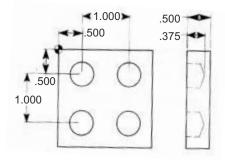
Q.36 Give a detailed specifications of CNC lathe machine. (CO-3)

Q.37 Write short note on following: (CO-1)

- a) Opto interrupt
- b) Any 5 NC words

Q.38 Write blind hole cut program of the following object. Assume any missing data and dimensions: (CO-2)

Note: Course Outcome (CO) mentioned in the question paper is for official purpose only.



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