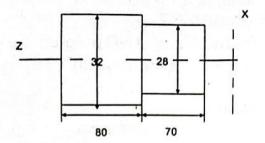
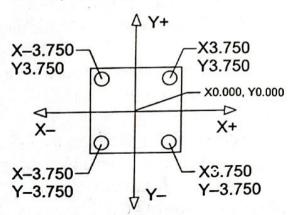
Q.35 Write a simple finishing cut program in absolute mode for step turning (CO2)



SECTION-D

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

- Q.36 Explain the function and working of recirculating ball screw mechanism with a neat diagram. (CO1)
- Q.37 Write short notes no:
 - a) Encoders
 - b) LVDT
- Q.38 Write a complete drill program for the following part.
 Assume any missing data of dimension



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SECTION-A

Note: Multiple choice questions. All questions are compulsory (10x1=10)

- Q.1 The axis perpendicular to work holding surface of a CNC machine is (CO3)
 - a) X

b) Y

c) Z

Time: 3 Hrs.

- d) W
- Q.2 Point-to-point systems are used for____ (CO2)
 - (a) drilling

b) parting

M.M.: 100

c) grooving

- d) facing
- Q.3 Which type of feedback device used in CNC machine? (CO1)
 - a) Positional feed back device
 - b) Velocity feedback device
 - c) Both a and b
 - d) None of the above
- Q.4 In servo motor, input command is (CO1)
 - a) Magnetic field
- b) Electrical pulses
- c) Mechanical device d)
- d) Hydraulic device
- Q.5 In a DNC system (CO1)
 - a) many machine tools can be controlled simultaneously
 - b) only a single machine tool can be controlled
 - c) NC machine cannot be controlled

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	d) non of the mentioned . The other name for G-codes is	(CO2)	Q.14	Recirculating ball screw nut mechanism machine is used to	in CNC (CO1)
	a) spindle speed codes b) preparatory codes	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	Q.15	Which feedback device translate physica into electrical data?	al motion (CO1)
	c) Governing codes		Q.16	Name any two types of NC program reader	
d) miscellaneous codes			Q.17 The function of slideways in CNC is to		
Q.7	Which of the following code will give	circular			(CO1)
	interpolation anti-clockwise?	(CO2)	Q.18	Expand ATC	(CO1)
	a) G00 b) G01		Q.19	code is used for DWELL functio	n (CO2)
	c) G02 d) G903		Q.20	Expand SCARA robot.	(CO6)
Q.8 Which of the following code is used in programming				SECTION-C	
	in incremental coordinates? a) G92 b) G90	(CO2)	Note:	Short answer type questions. Attempt a questions out of fifteen questions. (1	ny twelve 12x5=60)
(c) G91 d) G94		Q.21	Enlist the advantages of CNC	(CO1)
Q.9 I	LVDT has gotnumber of windings	(CO1)	Q.22	Discuss the Types of CNC	(CO1)
6	a) 04 b) 02		Q.23	Explain the purpose of PLC	(CO1)
Q.10	c) 03 d) 08 The CNC control sytem which has no feedl		Q.24	What are the special mechanical design for CNC?	eatures of (CO5)
	also called as	(CO1)	Q.25	Write short not on stepper motors	(CO1)
	a) uncontrolled systems		Q.26	Explain hydrostatic slideways	(CO1)
C	c) controlled systems c) closed systems		Q.27	Write short note on safety and guarding	devices (CO1)
C	d) open systems		Q.28	Define pallete. Explain the types of palletes	s.(CO5)
Note: (SECTION-B		Q.29	Discuss tool change cycle.	(CO1)
	Objective type questions. All questic compulsory. (10	ons are 0x1=10)	Q.30	Classify sensors.	(CO1)
	Expand MCU	(CO1)	Q.31	Explain the concept of tool offsets in CNC.	(CO7)
Q.12 Give binary equivalent of 108 (CO1)			Q.32	Write short not on canned cycles	(CO7)
Q.13. The setting of tools to a specific length, away from			Q.33	Explain the utility of discussion forms	(CO5)
	the machine is called	(CO1)	Q.34	Explain any one type of AGV	(CO6)
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