Enforment No: Exam Seat No:	Enrollment No:	Exam Seat No:
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C.U.SHAH UNIVERSITY

Summer Examination-2018

Subject Name: Computer Aided Manufacturing

Subject Code: 4TE07CAM1 Branch: B.Tech (Mechanical)

Semester: 7 Date: 20/03/2018 Time:10:30 To 01:30 Marks: 70

Instructions:

- (1) Question 1 is compulsory.
- (2) Instructions written on main answer book are strictly to be obeyed.
- (3) Draw neat diagrams and figures (if necessary) at right places.
- (4) Assume suitable data if needed.

Q-1 Attempt the following questions:

What is Binary-Coded Decimal? 2 1) Define the term Tool selection cycle. 2 2) How do we identify the Y-axis in NC/CNC machines? 2 3) What is floating zero? 2 4) 5) Define the term Tool offset. 2 Draw and label product development cycle. 2 6) What is the full form of APT? 1 7)

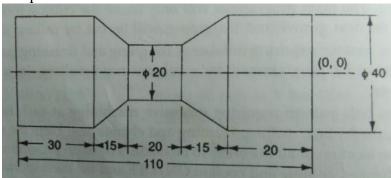
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8) What is the full form of DAS?

contact inspection methods.

Attempt any four questions from Q-2 to Q-8

Q-2 (a) What is do loops? Discuss the Do loops in detail and write a program for the component shown below.



Q-3 What are the benefits of MRP? Describe. 7 (a) What are the types of NC/CNC control systems? Explain any one with neat sketch. (b) 7 Write a technical note on methods of Swarf removal in CNC machines. 7 **Q-4** (a) Discuss the terms: (i) EOB and (ii) G00 (b) 7 7 Q-5 (a) What are the important features of CMM? List only the main advantages of non-

	(b)	Write a technical note on collaborative engineering.	7
Q-6	(a)	Write the steps of manual part programming.	7
	(b)	Write the description of following function.	7
		(i) G03 (ii) G63 (iii) G91 and (iv) G95 (v) M90 (vi) M00 (vii) M50	
Q-7	(a)	Write a note on any one coding system used in group technology.	7
	(b)	Describe Flexible Manufacturing Cells.	7
Q-8	(a)	Draw and discuss the CIM wheel.	7
•	(b)	Write a note on Machine Tool Unit in CNC system.	7

