Reg. No. :

Question Paper Code: 50072

B.E. / B.Tech. DEGREE EXAMINATION, NOV 2017

One Credit

Mechanical Engineering

15UME862 - CNC Programming

(Regulation 2015)

Duration: Three hours

Maximum: 30 Marks

Answer ALL Questions

PART A - (10 x 1 = 10 Marks)

1. The device, fed to the control unit of NC machine tool which sends the position command signals to sideway transmission elements of the machine, is called as

(a)	controller	(b)	tape
(c)	feedback unit	(d)	none of these

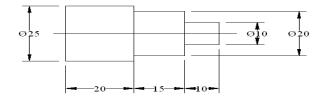
- 2. Several machine tools can be controlled by a central computer in
 - (a) NC (Numerical Control) machine tool
 - (b) CNC (Computer Numerical Control) machine tool
 - (c) DNC (Direct Numerical Control) machine tool
 - (d) CCNC (Central-Computer Numerical Control) machine tool
- 3. Part-programming mistakes can be avoided in
 - (a) NC (Numerical Control) machine tool
 - (b) CNC (Computer Numerical Control) machine tool
 - (c) Both a and b
 - (d) None of these
- 4. NC contouring is an example of
 - (a) continuous path positioning
- (b) point-to-point positioning

(c) absolute positioning

(d) incremental positioning

5.	. Computer will perform the data processing functions in					
	(a) NC	(b) CNC	(c) DNC	(d) none of these		
6.	The repeatability of NC machine depends on					
	(a) control loop errors(c) electrical errors		(b) mechanical errors(d) none of these			
7.	Rotation about Z-axis is called					
	(a) a-axis	(b) b-axis	(c) c-axis	(d) none of these		
8.	3. Rotation of spindle is designated by one of the following axis					
	(a) a-axis	(b) b-axis	(c) c-axis	(d) none of these		
9. The process of putting data into a storage location is called						
	(a) reading	(b) writing	(c) controlling	(d) hand shaking		
10. What does the G in G-Codes stand for						
	(a) Graphic	(b) General	(c) Geometric	(d) Global		
PART - B (20 x 1 = 20 Marks)						

11. (a) Write a CNC program for step turning using G and M code. (20)



Or

(b) Write a CNC program for Thread Cutting and Grooving and simulate in the software. (20)

