http://www.rgpvonline.com		http://www.rgpvonline.com				
	Total No. of Questions :8] [Total No. of Printed Pages :2		[2]			
	Roll No	5.	a)	Compare manual part programming for Fanuc, Heidenhain and Sinumerik control system in CNC.		
<u> </u>	MMCM-301(A)		b)	Explain briefly, parametric programming in CNC.		
==	M.E./M.Tech., III Semester				=	
http:	Examination, June 2016	6.	a)	Write G and M codes used in Sinumerik controller. State	id.)	
400	CNC Machines (Elective-I)			the basic structure of a part program for CNC lathe.	//w/	
-	Time : Three Hours		b)	What is APT? Discuss APT statements and commands.	ww.	
ngeven	Note: i) Attempt any five questions.	7.	a)	State the classifications of cutting tool inserts for CNC Machines.	http://www.rgpvonline	
nline.c	ii) All questions carry equal marks.		b)	State general problems encountered in maintenance of	ine.	
<u> </u>	iii) Draw neat diagrams wherever required.			CNC Machines.	сош	
		8.	Wr a) b) c)	rite short note on following: (any two) Work Holding Devices in CNC Tool pre-set in CNC Part programming using CAD/CAM		
httpk#	2. a) Discuss types of elements used to convert the rotary motion to a linear motion in CNC.			*****	ıttp://	
www.ngpv	b) Discuss the configuration and design of CNC guideways.			•	http://www.rgpvo	
gpvgn	a) Compare the working and applications of steeper motor and servo motor used in CNC.				gpvon	
line.com	b) Explain Laser interferometer in details.				ine.com	
3	-4. Discuss the following:				B	
	a) Axis Measuring System					
	b) Synchro and Synchro-resolver					
	Encoders					
	MMCM-301(A) ://www.rgpvonline.com	M	MCN	1-301(A) http://www.rgpvonline.com		