GUJARAT TECHNOLOGICAL UNIVERSITY
ME - SEMESTER – IV EXAMINATION – SUMMER • 2015

Subject Code: 742401   **Date: 01-05-2015**

Subject Name: Advanced Mould Manufacturing Technology

Time:02.30pm – 05.00pm   **Total Marks: 70**

Instructions:
1. **Attempt all questions.**
2. **Make suitable assumptions wherever necessary.**
3. **Figures to the right indicate full marks.**

Q.1	**(a)**	Explain CNC closed loop control system with neat sketch.	**07**
	(b)	Explain precision measuring and positioning of CNC.	**07**
Q.2	**(a)**	Explain the part programming structure with suitable example.	**07**
	(b)	What is the role of CAD/CAM in mould manufacturing?	**07**
		OR	
	(b)	How will you programme tool movement? Discuss.	**07**
Q.3	**(a)**	Explain programming using subroutines and canned cycles.	**07**
	(b)	What is G code? Give 6 examples.	**07**
		OR	
Q.3	**(a)**	Write about compensation for machining centers.	**07**
	(b)	What is M code? Give 6 examples.	**07**
Q.4	**(a)**	Write about different tool materials.	**07**
	(b)	Discuss about the softwares used for part and mould design.	**07**
		OR	
Q.4	**(a)**	Explain end-mill and ball-nose cutters with neat sketches.	**07**
	(b)	Prepare a process plan for manufacturing a single cavity two plate mould.	**07**
Q.5	**(a)**	How reverse engineering is useful for mould development?	**07**
	(b)	List out the advantages of machining using CAM.	**07**
		OR	
Q.5	**(a)**	Explain stereolithography with neat sketch.	**07**
	(b)	What are the factors to be considered for mould making? Explain.	**07**

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