Code No: G0405/R13

M. Tech. I Semester Supplementary Examinations, January-2017

DESIGN FOR MANUFACTURING

(CAD/CAM)

Time: 3 hours Max. Marks: 60

Answer any FIVE Questions All Questions Carry Equal Marks			
1.	a b	Explain how creativity can influence design with a suitable example. Discuss briefly the basic principles of designing for economical production.	6
2.	a b	Explain various machining costs considered in design for machining. Explain the selection of materials for optimum machinability.	6
3.	a b	Justify the statement "Casting design influences casting properties". Explain briefly any two casting guidelines with neat sketches.	6
4.	a b	Discuss the affects of casting design on solidification. Explain the effect of porosity on casting properties.	6
5.	a b	Explain the concept of redesigning in design for machining. How one can obtain dimensional accuracy and surface finish in casting?	6
6.	a b	Explain the effect of thermal stresses on weld joints. Explain briefly the design rules for welding.	6
7.	a b	Explain parting line design of dies. Discuss the design guidelines for brazed joints.	6
8.	a b	What is the importance of Keeler Goodman forging line diagram. Explain visco elastic and creep behavior in plastics.	6
