No. of Printed Pages: 2

BME-063

DIPLOMA IN MECHANICAL ENGINEERING (DME)

Term-End Examination December, 2012

	BME-063: CAD / CAM					
Time	: 2 H	Iours Maximum Marks	: 7 0			
Note		nswer any five questions. All questions c arry e aarks.	jual			
1.	(a)	What are the requirements needed for Display/Visualization of model in CAD/CAM systems?	7			
	(b)	What are the various applications of CAD and CAM? Explain briefly.	7			
2.	(a)	What do you mean by Random Scan Technique? Explain with suitable figures.	7			
	(b)	Explain principle and working of Liquid Crystal display.	7			
3.	(a)	Explain, extrude sweep and revolve commands which are used in CAD modelling with suitable examples.	7			
	(b)	Why are the CAD/CAM data exchange standards are required? Explain.	7			

4.	(a)	What are the different solid modelling operation? Explain with examples.	7
	(b)	What are the different types of Geometric modelling? Explain them.	7
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5.	(a)	Explain the basic co-ordinate system used in CNC.	7
	(b)	What are the different components of Computer Aided manufacturing system? Explain.	7
6.	(a)	What are the different components in FMS ? Explain them.	7
	(b)	Explain the different types of FMS Layouts.	7
7.	(a)	Explain the following : (i) MRP-II (ii) JIT (iii) ERP	7
	(b)	Explain the Management Information System (MIS) with suitable examples.	7
8.	(a)	Explain the different Decision-Support Systems. (DSS)	7
	(b)	Write short notes of the following: 3½x	2=7
S.		(i) Robot Anatomy	
		(ii) Parameters Defining Robots.	