No. of Printed Pages: 2

BME-063

DIPLOMA IN MECHANICAL ENGINEERING (DME)

00845

Term-End Examination December, 2014

BME-063: CAD / CAM

Ti	me : 2	hours Maximum Marks :	Maximum Marks : 70		
Note: Answer any five questions. All questions carry equal marks.					
1.	(a)	Explain the design process for CAD system with suitable block diagram.	7		
	(b)	Differentiate wire frame modelling with solid modelling, giving suitable examples.	7		
2.	(a)	How can the flickering of the image on the CRT monitor be avoided? Discuss in brief.	7		
	(b)	What are the limitations of light pen as a locating device?	7		
3.	(a)	What are the different types of output devices? Explain the function of any two			
	(b)	output devices with neat sketches. What are the types of co-ordinate systems? Explain with suitable examples.	7 7		

4.	(a)	Write the functions of geometric modelling in various functional areas. Explain in brief.	7
	(b)	How has the model been developed by extrusion feature? Explain with a suitable sketch.	7
5.	(a)	What are the advantages and disadvantages of computer aided manufacturing over the conventional manufacturing?	7
	(b)	Explain the operation of CNC-Machine tool system with a neat sketch.	7
6.	(a)	Write a descriptive note on "Basic Robot Motions". How are these motions provided to a robot?	7
	(b)	What is Management Information System (MIS)? Explain the concept of MIS with a suitable sketch.	7
7.	(a)	Differentiate between open loop system and closed loop system with suitable examples.	7
	(b)	What are the recent trends in manufacturing? Describe them in detail.	7
8.	Write short notes on the following: $4 \times 3 \frac{1}{9} = 1$		
	(a)	Simulation	
	(b)	Decision Support System (DSS)	
	(c)	CAD/CAM Database	
	(d)	AGVs	
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