B.Tech. MECHANICAL ENGINEERING (COMPUTER INTEGRATED MANUFACTURING)

Term-End Examination

00882

December, 2017

BME-002 : COMPUTER AIDED DESIGN

Time: 3 hours Maximum Marks: 70

Note: Attempt any **seven** questions. Use of scientific calculator is allowed. Drawing the diagram is compulsory wherever instructed in the numerical questions.

- List different types of input devices. Explain any one.
- Differentiate between 2D and 3D clipping.
 Explain 3D transformation with matrix.
- List out the various Bezier curves based on control points. Explain Bezier surface with its properties.
- 4. Find the reflection matrix when the axis of reflection is line y = 3x + 2.

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5.	Explain with suitable examples:		4+3+3
	(a) Wireframe mo	odelling	
	(b) Surface mode	lling	
	(c) Solid modelling	ng	
6.	neat sketch. Also	ite cubic spine curve with write its characteristics a ric equation for the same.	
7.	Explain Z-buffer algorithm with its operations. 10		
8.	Describe Bottom design with example	Up and Top Down asseml le.	bly 10
9.	Write the topolog structure of IGES f	y of IGES and describe tile.	the 3+7
10.	-	ficance of data exchange ght the use of data exchar	