*Roll No.* .....

## 22234

## M. Tech. 2<sup>nd</sup> Sem. (Mechanical Engg.) (Machine Design) Elective - I

Examination - December, 2013 COMPUTER AIDED DESIGN Paper : M-838 Time: Three Hours] [M.M.:100]Before answering the question, candidates should ensure that they have been supplied the correct and complete question paper. No complain in this regard, will be entertained after examination. **Note**: Attempt any *five* questions out of *eight* questions. All questions carry equal marks. 1. (a) Define 2D transformation. 10 (b) Explain rotation about an orbitrary point. 10 2. (a) Explain the curve sitting with a high order polynomial. 10 (b) Explain Fourier series of discrete systems. 10

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3.	Explain in detail analytic solid modelling and solid
	manipulation. 20
4.	Explain in detail IGES-data representation and
	PDES-data representation. 20
5.	Define precedence diagram, lisison sequencing
	analysis and precedence graph. 20
6.	Define hamogeneity lest, sorting, coherence and
	Warnock algorithm. 20
7.	(a) Define relational parametric surfaces. 10
	(b) Describe spline blended surfacer. 10
8.	(a) Define 3D visualization - reconstruction of three
	dimensional images. 10
	(b) Define Non Uniform Rastional B-Spline (NURBS).10