No. of Printed Pages : 2

BIME-018

4	ech. MECHANICAL ENGINEERING (BTMEVI)			
8		Term-End Examination June, 2014		
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BIME-018 : COMPUTING AIDED DESIGN				
Time	: 3 ho	nurs Maximum Marks :	70	
Note	e: (i) (ii	All questions carry equal marks.) Attempt any five questions.		
	(11	i) Sunaira noucions face asaa meaning.		
1.	(a)	Describe the various activities involved in product development.	7	
	(b)	Discuss the stages of the product life cycle and explain the importance of each stage.	7	
2.	(a)	Explain what is rendering. What are the different stages of rendering and image ?	7	
	(b)	Describe an algorithm used for the removal of hidden lines.	7	
3.	(a)	Describe the advantages of a local area	7	
	(b)	network in the design environment. What are the principal subsystems of a graphic engine ? Explain in brief.	7	
4.	Sug wou and flow	gest and describe the procedure that you Id adopt to create the surface of the vanes inner projections of the shroud of a mixed mimpeller.	14	

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- 5. (a) Discuss the following with reference to 7 stiffness matrix :
 - (i) Sparse matrix and
 - (ii) Band width.
 - (b) Scale the triangle with vertices X (0, 0), 7
 Y (2, 2) and Z (5, 0) to twice its size while keeping a point fixed at C (5, 3).
- 6. (a) Discuss the need for standardization in 7 computer graphics.
 - (b) Compare CORE and GKS graphic 7 standards.
- Describe giving suitable examples any four of the 14 following surface modelling commands of standard CAD packages :
 - (a) 3D face
 - (b) P face
 - (c) Rulesurf
 - (d) Tabsurf
 - (e) Revsurf and
 - (f) Edgesurf