Programme(UG)/Sem IV/UMCD 401 Total number of printed pages: 2025

3D Modeling and Texturing

Full Marks: 100

Time: Three hours

The figures in the margin indicate full marks for the questions.				
Answer any four questions.				
Q1]	A]	Explain the process of 3D modeling and texturing. How do these two scontribute to the development of realistic digital models in animation or gaindustries?	_	
	B]	Define Polygon and NURBS. Compare their characteristics and explain modeling technique would be more suitable for creating a highly detailed or model.		
Q2]	A]	Discuss the importance of tropology in 3D modeling and how it affects anim production.	nation (10)	
	B]	As a 3D modeler in animation film production, which type of mesh is preferenced triangles (tris) or quadrilaterals (quads)? Explain the reasons behind this preferenced triangles (tris) or quadrilaterals (quads)?		
		= 2//1	(15)	
Q3]	A]	Write down the difference between vector and raster graphics.	(10)	
	B]	Explain the process of UV unwrapping in Maya and its important in animation a immersive experiences.	and (15)	
Q4]	A]	Could you outline the procedural steps for configuring image planes in Aut Maya for the purpose of creating either organic or inorganic models? Please pra detailed description of the process.		
	B]	Describe the Boolean operations in 3D modeling. How are Union, Difference an Intersection used in design?	nd (10)	
Q5]	A]	Explain the concept of edge loops and their importance in character modeling.	(10)	
	B] What is the technical definition of texturing in the context of 3D graphic does the Hyper Shade tool contribute to the texturing process? Please el the role of Hyper Shade within the texturing workflow.			
Q6]	A]	Discuss the impact of Maya's Arnold Renderer on 3d modeling and texturing?	(10)	

(a) Edge loop Tool, (b) Lambert, (c) Cylindrical mapping in Maya

(3 X5 = 15)

В

Short Note: