



BRAINWARE UNIVERSITY

Brainware University 398, Ramkrishnapur Road, Barasal Kolkala, West Bengal 700125

Term End Examination 2024-2025 Programme - M.Sc.(AM)-2020/M.Sc.(AM)-2021/M.Sc.(AM)-2022/M.Sc.(AM)-2023 Course Name – Animation Film Making II - 3D Course Code - MMM301A-II/MMM301AII (Semester III)

Full Marks: 60 Time: 2:30 Hours

[The figure in the margin indicates full marks. Candidates are required to give their answers in their own words as far as practicable.]

Group-A

(Multiple Choice Type Question)

1 x 15=15

- Choose the correct alternative from the following:
- (i) Select the shortcut of Attribute Editor.
 - a) Ctrl+A

b) Ctrl+C

c) Ctrl+X

d) Alt+Tab+Ctrl

- (ii) State the full form of MEL.
 - a) Maya Extreme Logo

b) Maya Embedded Language

c) Maya Embedded Language

- d) Maya Error Loop
- (iii) Choose from one of these, that is not a scripting language you can use in Maya.
 - a) Python

b) Ruby

c) Mel

- d) Java
- (iv) Choose the default views that a 3D model can be viewed from in Autodesk Maya.
 - a) Front, Side, Top and a free-moving perspective view

b) Left, Right and Back d) None of the above

c) Perspective and Right

- (v) Identify the tool used to smooth a mesh in Autodesk Maya.
 - a) Bevel

b) Smooth

c) Extrude

- d) Merge
- (vi) Choose the tool used to move objects along the X, Y, and Z axes in Maya.
 - a) Move Tool

b) Rotate Tool

c) Scale Tool

- d) Transform Tool
- (vii) Identify the shortcut to switch between the perspective and orthographic views in Maya.
 - a) Spacebar

b) Alt + Spacebar

c) Ctrl + Spacebar

- d) Shift + Spacebar
- (viii) Choose the function of the 'Slide Edge Tool' in Edge mode.
 - a) 1. Moves an edge along the surface

b) 2. Duplicates an edge

c) 3. Scales an edge

d) 4. Extrudes an edge

(ix)	Choose the correct tool used to create a polygonal bridge between two edges in Maya.			
•	a) Extrude	p) Bridge		
	c) Bevel	d) Merge		
(x)	Choose the correct method to apply a material to an object in Maya.			
	a) Use the Material Editor	b) Apply via UV Texture Editor		
1211	c) Use Hypershade d) Assign material through Graph Node ii) Identify the tool used to view UV layouts in Maya.			
9				
	a) UV Toolkit c) UV Editor	b) Hypershaded) Attribute Editor		
(xii) Point out the attribute that allows soft, diffused shadows for more natural lighting				
effects.				
	a) Decay Rate	b) Shadow Softness	ibrary are University nnapur Road, Barasal	
,	c) Intensity	d) Dropoff Brainwa	hnapur Road, Barasai	
(xiii)	iii) Identify the best use of Ambient Light in Maya.		ainware University amkrishnapur Road, Barasal Kala, West Bengal-700125	
	a) General Illumination	b) Focused Spotlight Kolkator		
(viv)	c) Highlight Control Choose the render setting that controls the ove	d) Shadow Creation		
(^!V)	a) Blur Control			
	c) Anti-Aliasing	b) Sharpness Control d) Image Detail Control		
(xv) Point out the control used to manage the number of samples taken for lighting during				
rendering.				
	a) Light Samples	b) Sampling Quality		
	c) Render Samples	d) Sample Rate		
	Grou	n-B		
·			3 x 5=15	
2. Explain the Concept of Normal Mapping in 3D Graphics.			(3)	
	Define UV unwrapping in Maya. Explain mesh and edge flow in 3D modeling.		(3) (3)	
5. Summarize the attribute that controls the softness of shadows.			(3)	
6. Explain Splines.			(3)	
OR (2)				
Explain the Combining Meshes in 3D modelling. (3)			(3)	
Group-C				
	(Long Answer Ty	•	5 x 6=30	
7. Explain the Role of Shaders of Materials in 3D Rendering			(5)	
8. Illustrate the benefits of using the Insert Edge Loop tool for adding detail to a low-polygon (5) model. How does this tool contribute to the model's ability to undergo smooth			n (5)	
deformations.				
9.	List the main functions of Vertex, Edge, and Face modes in Maya.			
10. Describe the interface of Maya and its key elements.			(5)	
11. Explain about Extrude in modelling.12. Write About the Key Characteristics of Directional Lights in 3D Rendering.			(5) (5)	
OR				
	Explain the Role of Point Lights in Adding Realism		(5)	