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a) Adding vertices

c) Extruding faces

a) G c) V

(vii) Choose the shortcut key for snapping to the grid in Maya.

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## **BRAINWARE UNIVERSITY**

Term End Examination 2024-2025 Programme - B.Sc.(AM)-Hons-2020/B.Sc.(AM)-Hons-2021/B.Sc.(AM)-Hons-2022 Course Name - 3D Animation I Course Code - BMMC501 (Semester V)

Time: 2:30 Hours Full Marks: 60

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

1 x 15=15

(Multiple Choice Type Question) Choose the correct alternative from the following: (i) Identify what was used to create the pupil for the eye texture. a) A scan of an eye b) A pupil texture c) A black circle d) A ramp (ii) Locate the tool in Maya used primarily for creating depth in a flat plane. a) Move Tool b) Extrude Tool c) Rotate Tool d) Scale Tool (iii) Choose the correct approach when planning to create a low-poly model in Maya that will still appear detailed. a) Use high-resolution textures b) Increase the polygon count d) Add more edge loops c) Focus on silhouette and blocking (iv) Choose the correct action when you want to create a sharp crease along an edge in Maya. a) Subdivide the edge b) Delete the edge d) Apply a bevel c) Add supporting edge loops (v) Select the operation used to convert multiple faces into a single face in Maya. b) Combine a) Bridge d) Collapse c) Merge (vi) Choose the best method for adding detail to a flat surface in Maya.

b) X

d) C

b) Adding edges d) Smoothing

(vi	<ul> <li>i) Identify the tool that used to smooth out the count.</li> </ul>	e entire model by increasing the polygon	· · · · · · · · · · · · · · · · ·
/1.	a) Smooth Tool c) Soft Select Select the key that toggles between wirefran	b) Sculpt Tool d) Mirror Geometry Tool	
(IX		b) 4	
	a) 3 c) 5	d) 6	
(x	Locate the feature in the UV Editor for aligni	•	
	a) UV Alignment Tool c) UV Snap Tool	b) Align UVs d) Snap to Grid	
(xi	Choose the Mesh tool in Maya that is used to preserving its overall shape.		
	a) Mesh > Smooth	b) Mesh > Reduce	
(xii	c) Mesh > Cleanup d) Mesh > Combine (xii) Identify the option that enables softening the edges of a mesh to create a smooth appearance.		
	a) Mesh Display > Harden Edge	b) Mesh Display > Unlock Normals	
	c) Mesh Display > Soften Edge	d) Mesh > Cleanup	
(xiii	Select the material property that controls the	e transparency of a surface.	
	a) Opacity	b) Reflectivity	
	c) Glossiness	d) Specular	
(xiv	Choose the Arnold shader setting used to sin the surface of a material.	nulate the effect of light scattering beneath	
	a) Subsurface Scattering	b) Translucency	
	c) Transmission	d) Refraction	
(xv)	Locate the map type that controls the level of affecting its transparency.		
	a) Opacity Map	b) Reflection Map	
	c) Bump Map	d) Emission Map	
	G	iroup-B	
(Short Answer Type Questions)			3 x 5=15
2. Write Pro's & Con's of working with smooth polygons.			(3) (3)
	3. Discuss if a polygonal models be used in real-time applications, such as video games.		
	4. Define the use of Channel Box used in Maya.		
	<ul><li>5. Describer the UV coordinates in 3D model and why are they essential.</li><li>6. Explain the Bridge command in Polygon modeling.</li></ul>		
0. E.	piant the Bridge Command in Polygon modelin	OR	(3)
111	Illustrate the difference between edge loops and edge rings in Maya.		
	G	roup-C	
	(Long Answe	er Type Questions)	5 x 6=30
	7. Describe the process of lighting and shading in 3D rendering. How different types of lights and (5) materials affect the perception of depth and realism in a scene.		
	Describe the process of UV unwrapping in poly		(5)

texturing.

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Explain the different types of lights available in Autodesk Maya, and how do they differ in terms of lighting effects.
 Explain the process to create simple sword in maya.
 Describe the relationship between specular maps and the shininess of materials in 3D graphics.
 Describe the steps involved in the 3D workflow in Maya, from concept to final render.
 OR
 Describe the differences between NURBS and polygonal modeling in Maya and the scenarios where each technique is preferable.