

## **BRAINWARE UNIVERSITY**

### Term End Examination 2018 - 19

# Programme – Bachelor of Arts (Honours) in Multimedia & Web Development

## **Course Name - 3D Rigging and Animation**

### Course Code - BMW602

(Semester - 6)

Time allotted: 3 Hours Full Marks: 70

[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 Questions)  $10 \times 1 = 10$ 1. Choose the correct alternative from the following: (i) The X Axis is Displayed using what color? a. Yellow b. Red c. Black d. None of the above Which node controls the rotation of the Chain? (ii) a. Xref Object. b. Attached Objects c. PathDeform Object. d. Objects. (iii) Which Nurbs element is being represented by the yellow colored line in the given image? Isoparm a. Lambert c. Rendering Nodes d. None of the above (iv) What is the full form of IK? a. Inverted Kinematics b. Inverse Kinematic d. None of the above c. Independently Kinematics are created by the rigger to assist the animator in manipulating joints within (v) the rig. b. LK a. Control curves c. Constraint d. Parent Which light is used to simulate a combination of direct Light and Indirect Light? (vi) a. Ambient light b. Point light

d. Spot light

c. Normal light

(vii)	) Which	h of the following in 3D M Segment		line connecting tow v Extrude	vertex?
	c.	Vertex	d.	Spline	
(viii	) Which	Which light is represented by the icon in the given image?			
	a.	Spot light	b.	Ambient light	
	c.	Point light	d.	All of the above	
(ix)	Whic	Which output image file formats can store the depth channels in one			
	a.	Maya IFF	b.	Maya "I"	
	c.	Maya XF	d.	None of the above	
(x)	What is a technique used in 3D computer graphics that are meant to a lighting to a 3D scenes?  a. Global animation  b. Global imagery				add more realistic
				Global imagery	
	c.	Global illusion	a.	Global illumination	
			Group – B		
(Short Answer Type Questions) $3 \times 5 = 15$					
Ansv	wer any t	hree from the following:			
2. 3. 4. 5. 6.	What do What is What do	short note on Kinematics? you mean by Skinning? Set Driven Key? you mean by Rigging? about IK Solver.			5.
			Group – C		
		(Long	Answer Type Q	Questions)	3 x 15 = 45
Answ	ver any th	aree from the following:			
<ul><li>7.</li><li>8.</li><li>9.</li></ul>	<ul> <li>(a) How to create a Skeleton Rig in Maya.</li> <li>(b) What do you mean by Latices and Curves</li> <li>(a) Explain using the Parent and Child in Rigging Animation.</li> <li>(b) How to create Skeleton Rig?</li> <li>(a) Explain the Human Inverse Kinematics in Rigging Animation?</li> </ul>				8 7 10 5
10. 11.	<ul> <li>(a) Explain the Human Inverse Kinematics in Rigging Animation?</li> <li>(b) What do you mean by Skeleton Generator?</li> <li>(a) Define Skinning Geometry in Rigging Systems.</li> <li>(b) How to Edit Skin Weights in the Component Editor?</li> <li>Explain the Twelve Basic Principles of 3D Animation.</li> </ul>				

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