No. of Printed Pages: 8

**BNM-001** 

P.T.O.

## **BACHELOR OF ARTS IN 3D ANIMATION AND VISUAL EFFECTS**

## Term-End Theory Examination

June, 2019

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**BNM-001: ANIMATION PRODUCTION PIPELINE** 

Ti:	me : 3	hours	Maximum Mar (Weightag	
No	ote: A	Attempt <b>all</b> questions.		
		SECTION A	<b>A</b>	
Th the	e follo corre	owing section has objective ct answer. Each question co	type questions. arries 2 marks.	Choose
1.	with	birth operator enables ain the Particle Flow systole parameters.	of partic	les of 2
	(a)	Life		
	<b>(b)</b>	Display		
	<b>(c)</b>	Creation		
2.		first event in the Partic	le Flow system	is $2$
	(a)	Global		
	(b)	Master		
	(c)	Parent		
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3.	The operator creates each particle as a rectangle that always faces a particular object, camera or direction.			
	(a)	Look At		
	(b)	Aim		
	(c)	Shape Facing	e.	
4.		Iaya, a goal can be any object that includes a re on surface.	2	
	(a)	True		
	(b)	False		
5.		ame shapes you can use in Maya fields are ere, cylinder, cube, and torus.	2	
	(a)	cone		
	(b)	pyramid		
	<b>(c)</b>	oval		
6.	com	3ds Max particle flow, the particle flow ponents are subdivided into three main gories: Operators, Flows and	2	
	(a)	Nodes		
	(b)	Tests		
	(c)	Connections		
7.	whe	Maya, keys ticks are shown as green marks ereas breakdowns are shown as red marks on time slider.	2	
	( <b>a</b> )	True		
	(b)	False		

8.	usec	ise Particle Age Map, which operator will be d?	2
	(a)	Material Dynamic	
	(b)	Material Static	
	(c)	Mapping	
9.	Whi Coll	ch deflector type is <i>not</i> supported by ision Spawn test?	2
	(a)	Deflector	
	<b>(b)</b>	Dynaflect	
	(c)	U-deflector	
10.		urn on pivot point manipulator, which key is led to be pressed?	2
	(a)	Insert key	
	(b)	'G' key	
	(c)	Space bar key	
11.		isplay a texture assigned to an object in the port, activate	2
	(a)	Display standard map in viewport	
	(b)	Display in viewport	
	(c)	Show standard map in viewport	
12.		th editor lets you edit event and sound hronization and timing?	2
	(a)	Expression Editor	
	(b)	Graph Editor	
	(c)	Dope Sheet Editor	

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13.	To quickly close the holes in a geometric object, we use the modifier.		
	(a)	Cap	
	<b>(b)</b>	Cap Holes	
	(c)	None of the above	
14.	The	three world space axis in 3ds Max are	2
	(a)	a, b, c	
	<b>(b)</b>	x, y, z	
	(c)	p, q, r	
15.		array containing multiple arrays is called	2
	( <b>a</b> )	Incorrect Array	
	(b)	Group	
	(c)	Matrix	
16.		ch light is used to simulate a combination of ct light and indirect light?	2
	( <b>a</b> )	Ambient light	
	(b)	Point light	
	(c)	Spot light	
17.		ch keyboard shortcut lets you edit the cicle object in edit mode?	2
	(a)	Enter	
	(b)	Insert	
	(c)	Shift + A	

18.	To pan	activate a viewport without accidentally ning or transforming an object, you can the viewport.	2
	(a)	double left click	
	(b)	double right click	
	(c)	right click	
19.		pressing, you can quickly focus your ve viewport to the selected objects.	2
	(a)	F	
	(b)	K	
	(c)	Z	
20.	The	re are types of Bake sets in Maya.	2
	(a)	two	
	(b)	four	
	<b>(c)</b>	five	
21.		cotate an object, you can use the keyboard tcut	2
	(a)	A	
	(b)	${f E}$	
	( <b>c</b> )	R	
22.	The	Mental Ray equivalent of a radiosity is	2
	(a)	Incorrect Final Gather	4
	(b)	Global Illumination	
	(c)	Photon Tracer	

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23.	Hardware rendered particles have a render type of Blobby surface.		
	(a)	True	
	(b)	False	
24.		ere is no light created in the scene, Maya matically creates during render.	2
	(a)	ambient light	
	(b)	point light	
	(c)	directional light	
25.		lip the renderable side of a surface of a netry object, modifier is used.	2
	(a)	Flip	
	(b)	Normal	
	(c)	Skin	
26.	pass	alue between 0 and $-1$ makes the particles through the surface with retraction out of back side.	2
	(a)	True	
	(b)	False	
27.	3ds font	Max Text object can use most of the Windows s.	2
	(a)	True	
	(b)	False	

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28.		is the shortcut command to 'show last	
	hido	len' object in Maya.	2
	(a)	Ctrl + H	
	(b)	Alt + H	
	<b>(c)</b>	Ctrl + Shift + H	
29. In Maya, Script Editor lets you type in single multi-line scripts in MEL or Python tab.			2
	(a)	True	
	(b)	False	
30.	The crea	Time Editor is a comprehensive tool for ting and editing animation in Maya.	2
	(a)	True	

(b)

False

## **SECTION B**

All questions are **compulsory** and each carries 10 marks.

31.	Define Vortex and Turbulence field in Maya and explain their usage in brief.	10
<b>32.</b>	Explain step by step production process for creating a "fountain" with particles in 3ds Max.	10

33. How can a realistic simulation of a group of flying bees be created in Maya using particle dynamics? Explain in brief.

10

34. What do you understand by Paint Effect in Maya? Explain in brief.