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BNM-001

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

## **Term-End Theory Examination**

□ 1 3 8 □ December, 2014

## **BNM-001: ANIMATION PRODUCTION PIPELINE**

Time : 3 hours		hours	Maximum Marks: 100	
			(Weightage 100%	,)
No	te: A	ttempt <b>all</b> que	stions.	_
			as objective type questions. Choos question carries 2 marks.	e
1.		Maya you can ement of partic	't animate the display and les with keys.	2
	(a)	True		
	(b)	False		
2.		geometry to	_ causes particles that collide create new particles upon	2
	(a)	Make Collide		
	(b)	Per Point Eve	nt Editor	
	(c)	Particle Collis	sion Event Editor	
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3.	In Maya the of a particle object is the value of its position, velocity, acceleration and mass attributes at any frame.		2
	(a)	dynamic state	
	(b)	static state	
	(c)	idle state	
4.	In Maya emits particles from a position in the workspace or from particles, vertices, CVs, edit points, or lattice points.		
	(a)	Surface Emitter	
	(b)	Point Emitter	
	(c)	Curve Emitter	
5.	In Maya a goal can be any object that includes a curve on surface.		2
	(a)	True	
	(b)	False	
6.	In Maya can be used to reassign collisions between particles and rigid bodies or soft bodies.		2
	(a)	Collision Relationships Editor	
	( <b>b</b> )	Particle Relationships Editor	
	(c)	Dynamic Relationships Editor	
7.		Maya fields influence objects a stationary or moving position in the work e.	2
	(a)	Stand-alone	
	(b)	Animated	
	(c)	Object	
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8.	is a soft body.		
	(a)	Objects, Springs	
	<b>(b)</b>	Geometry, Particles	
	(c)	Particles, Springs	
9.		Maya a rigid body is a polygonal or NURBS acce converted to a/an shape.	2
	(a)	unyielding	
	(b)	closed	
	(c)	deforming	
10.		Maya fluid effects do not use the solvers to simulate fluid motion.	2
	(a)	idle	
	(b)	static	
	(c)	non-dynamic	
11.	In Maya represents the material property (the substance) of the fluid in the real world.		
	(a)	Density	
	(b)	Color	
	(c)	Opacity	
12.		Iaya when you define a fluid property as a, you can place different property es in each individual grid unit called voxel.	2
	(a)	set to gird	2
		add to grid	
		grid	
	(0)	giiu	

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13.	non-event driven model, using a special dialog called Particle View.	2
	(a) True	
	(b) False	
14.	In 3DS Max by default, the emitter is the Particle Flow source icon using the	2
	(a) Position Object Operator	
	(b) Position Icon Operator	
	(c) Particle Icon Operation	
15.	In 3DS Max Particle Flow the first event is called the event.	2
	(a) global	
	(b) main	
	(c) master	
16.	In 3DS Max Particle Flow the contains the particle diagram and provides functions for modifying the particle system.	2
	(a) parameters panel	
	(b) depot	•
	(c) event display	
17.	determines a specific amount of time has passed since the beginning of the simulation?	2
	(a) Time Test	
	(b) Age Test	
	(c) Life Test	

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	(c)	Shape Mark Operator		
	(b)	Image Mark Operator		
	(a)	Image Map Operator		
	mapped on to it.		2	
	out from the particle geometry with an image			
21.	In 3DS Max Particle Flow replaces each particle with either a rectangle or a box cut			
0-	(b)	False		
	(a)	True		
	_	cle faces the camera at any condition.	2	
20.	thick	DS Max Particle Flow 2D particles have zero eness, and are invisible when the back of the	е	
		Speed by Geometry Operator	•	
	(b) (c)	Speed by Surface Operator Speed by Coometry Operator		
	(a)	Speed by Object Operator		
	•	ets in the scene?	2	
		icle speed and direction with any object of		
19.		DS Max which operator lets you contro		
	(c)	Position Object Operator		
	(b)	Birth Operator		
	(a)	Position Icon Operator		
18.		rols the initial placement of particles on the ter?		

22.	In 3I	OS Max space warps are	objects	
	that affect the appearance of other objects.			2
	(a)	non-renderable		
	(b)	non-animatable		
	(c)	renderable		
23.		DS Max the Motor space warp worl, but applies rotational torque ted particles or objects rather the	to the	
	direc	tional force.		2
	(a)	Vortex		
	(b)	Push		
	(c)	Wind		
24.		OS Max POmniFlect is a Very term of space warp.		2
	(a)	cylindrical		
	(b)	spherical		
	(c)	planar		
25.		DS Max when you use forces and definer, always bind the deflectors before.	ore the	2
	(a)	True		
	(b)	False		

26.	other object, can carry only a single material at any time.		
	(a)	True	
	(b)	False	
27.		RealFlow Realwave mesh can be influenced by mons.	2
	(a)	True	
	(b)	False	
28.	poss	RealFlow with deamon it's sible to define a life-span for the particles and ove them when this limit is reached.	2
	(a)	K Life	
	(b)	K Time	
	(c)	K Age	
29.	In RealFlow is a very important attribute and effective tool to sharpen meshes and eliminate the rounded and "blobby" look.		2
	(a)	Filters	
	(b)	Smooth	
	(c)	Particle Density	
30.		ects can be modified in terms of polygon or ex number by RealFlow's GUI.	2
	(a)	True	
	(b)	False	
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Answer the following questions with a detailed diagram/flow chart. Each question carries 10 marks.

- 31. Explain the production process involved in the creation of "Camp Fire" in 3DS Max.

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- **32.** Describe the production process and integration between Maya/Max and RealFlow for the below examples.
  - (a) Chocolate falling down on a surface (chocolate using RealFlow)
  - (b) Filling a glass of water (water using RealFlow)
- 33. Explain the stepwise process involved to create a realistic simulation of a group of arrows coming and hitting the ground using Maya Particle Dynamics.
- **34.** Define Turbulence Field and Vortex Field in Maya and explain their usage in brief.

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