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BNM-001

BACHELOR OF ARTS IN 3D ANIMATION AND VISUAL EFFECTS

Term-End Theory Examination

00293

June, 2018

BNM-001: ANIMATION PRODUCTION PIPELINE

Time: 3 hours

Maximum Marks: 100

(Weightage 100%)

Note: Attempt all questions.

SECTION A

The following section has objective type questions. Select the right answer. Each question carries 2 marks.

In 3ds Max Particle Flow, spawn particles are 1. new particles that are generated from existing particles in a process called particle 2 (a) generation (b) spawning (c) creation In 3ds Max Particle, systems are objects that 2. generate _____ sub-objects called particles. 2 (a) editable (b) non-editable

(c)

special

3.	he main user interface for creating and nodifying particle systems in particle flow.	2
	a) Event Display	х :
	b) Depot	
	c) Particle View	
4.	In 3ds Max, the easiest way to open Particle View is by pressing the key on the keyboard.	2
	(a) 5	
	(b) 6	
	(c) 7	
5.	In 3ds Max, after being born, particles cannot remain stationary at the emission point.	2
	(a) True	
	(b) False	
6.	In 3ds Max Particle Flow, the Birth operator must always come at the beginning of a particle stream.	2
	(a) True	
	(b) False	
7.	In 3ds Max Particle Flow, the delete operator lets you give them a/an life span.	2
	(a) Infinite	
	(b) Finite	
	(c) Undefined	
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8.	In 3ds Max Particle Flow, the	
	operator lets you emit particles from any other	
	object or objects in the scene.	2
	(a) Position Icon	
	(b) Position Object	
	(c) Object	
9.	In 3ds Max Particle Flow, the	
	operator gives an angular velocity to particles in	
	an event.	2
	(a) Rotate	
	(b) Spin	
	(c) Rotation points of the second sec	
	particles una their telegraphics.	
10.	In 3ds Max Particle Flow, directional controls	
	provided by the operator are based on	
	the position and orientation of the Particle Flow	
	icon.	2
	(a) Speed	
	(b) Direction	
	(c) Rotation	
11.	In 3ds Max, the space warp simulates	
	the effect of wind blowing particles generated by	
	a particle system.	2
	(a) Wind	
	(b) Air	
	(c) Air flow	
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12.		s max, the space warp explodes as into into their individual faces.	2
	(a)	PBomb	
	(b)	Bomb	
	(c)	Explode	
13.	defle	ds Max, the UDeflector is a universal etor that lets you use any as a cle deflector.	2
	(a)	Dummy object	
	(b)	Particle	
	(c)	Object	
14.		Maya, a particle object is a collection of cles that share the attributes.	2
	(a)	Different	
	(b)	Opposite	
	(c)	Same	
15.	In M	aya, each particle in a scene belongs to some	
7		cle object.	2
	(a)	True	
	(b)	False	
16.		laya, particle tool can be used tocles in the workspace.	2
	(a)	place	
	(b)	paint	
	(c)	both	
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17.	rand	Maya, emitters emit particles from lom, evenly distributed positions on the outer s of NURBS or polygonal surfaces.	2
	(a)	Curve	
	(b)	Object	
	(c)	Surface	
18.	In M	Iaya, volume emitters emit particles from a volume.	2
	(a)	Open	
	(b)	Closed	
	(c)	Attached	
19.	In N	Maya, a goal can be any object except a on surface.	2
	(a)	Curve	
	(b)	Point	
	(c)	Vertex	
20.	In I	Maya, particles can collide with other cles.	2
	(a).	True	
	(b)	False	
21.	In M	Iaya, software rendered particles have a er type of	2
	(a)	Blobby Surface	
	(b)	Point	
	(c)	Spheres	
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22.	In Maya, you can add a rgbPP	
*	attribute, which means you can set the colour of	
	each particle of the object independently.	2
	(a) Shading group	
	(b) Per particle	
	(c) Per object	
23.	In Maya, you can set the lifespan for	
	particles or on a per-particle basis.	2
	(a) Selected	
	(b) Random	
	(c) All the	
24.	In Maya, fields are that you use to	
	animate the motion of particles.	2
	(a) Effectors	
	(b) Influences	
	(c) Forces	
25.	In Maya, when you make a soft body from	3 1000
20.	geometry or a lattice, Maya creates a	
	corresponding object.	2
	(a) Parent	
	(b) Child	
	(c) Particle	
26.	In Maya Fluid Dynamics, scaling fluid containers	
	using the scale transform increases the size of	
	the container scaling the properties	
	inside the container.	2
	(a) without	
	(b) including	
	(c) with	
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27.	In Maya, nCloth is composed of a network of many particles connected by many links, that together create a mesh.	2
	(a) Static	
	(b) Stable	
	(c) Dynamic among non-kabong and recipied	i
28.	In RealFlow " " particles are perfectly	
	suited for fast calculations of secondary effects, like spray or foam.	2
	(a) Gas	
	(b) Liquid	
	(c) Dumb	
	the very release cover a part will wang	
29.	In RealFlow, defines the tendency of particles to stick together.	2
	(a) Thickness	
	(b) Viscosity whose has a shared as M	
	(c) Stickyness	
	Define Air field and Drag field in Maya and	
30.	Which of the following is not a particle type in RealFlow?	2
	(a) Gas	
	(b) Dumb	
	(c) Water	
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SECTION B

Answer **all** the following questions with detailed diagrams/flow charts. Each question carries 10 marks.

- 31. Explain the production process involved in creating simulation of an "Asteroid hitting a building" with rigid body dynamics in 3ds Max.
- **32.** Describe the production process and integration between Maya/Max and RealFlow for the examples given below:

 10
 - (a) Honey falling down on a spoon (Honey using RealFlow).
 - (b) Milk falling down on a pot (Milk using RealFlow).
- 33. Explain the stepwise process involved to create a realistic simulation of a "Wall Explosion" using Maya Particles and Rigid Body Simulation.
- **34.** Define Air field and Drag field in Maya and explain their usage in brief.