No. of Printed Pages: 7

**BNM-001** 

## 00428

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

## Term-End Theory Examination December, 2015

**BNM-001: ANIMATION PRODUCTION PIPELINE** 

Time: 3 hours Maximum Marks: 100

(Weightage 100%)

Note: Attempt all questions.

The following section has objective questions. Please tick the **right** answers. Each question carries 2 marks.

- In 3Ds Max Particle Flow employs an event driven model, using a special dialog called
  - (a) PF source
  - (b) Particle view
  - (c) Depot
- In 3Ds Max Particle Flow, operators and tests are known collectively as \_\_\_\_\_\_.
  - (a) actions
  - (b) events
  - (c) flow

3.	In 3Ds Max Particle Flow, the first event in the system is always a event, whose contents affect all particles in the system.  (a) main  (b) global  (c) local	2
4.	In 3Ds Max Particle Flow, rate parameters, such as speed, are measured in units per  (a) second  (b) frame  (c) 25 <sup>th</sup> frame	2
5.	In 3Ds Max Particle Flow, the contains all Particle Flow actions, as well as several default particle systems.  (a) depot  (b) parameters panel  (c) event display	2
6.	In 3Ds Max Particle Flow, operators let you describe particle speed and direction, shape, appearance and more.  (a) True  (b) False	2
7.	In 3Ds Max Particle Flow, the Birth Texture operator uses an texture to calculate the timing, location and scale of particles.  (a) procedural  (b) ramp  (c) animated	2

8.	applied once per event per particle, except when using the option.		
	(a)	Random 3D	
	(b)	Speed Space Follow	
	(c)	World Space	
9.	In 3Ds Max Find Target Test can't be used with animated object.		
	(a)	True	
	(b)	False	
10.	In 3Ds Max the is an universal deflector that lets you use any object as particle deflector.		
	(a)	Deflector	
	(b)	S Deflector	
	(c)	U Deflector	
11.	In Particle view the operator lets you give particles material IDs that can vary during the event. It also lets you assign a different material to each particle based on it's material ID.		
	(a)		
	(b)	Material Dynamic	
	(c)	Material Static	
12.	geon	article Flow keep apart doesn't use particle metry; rather, it creates a spherical force field ered on the pivot of each particle.  True  False	2

13.	In Maya point Render Type of Particle System can't be rendered with Mental Ray Renderer.		2
	(a)	True	
	(b)	False	
14.		Maya the field pulls objects in a allar or spiraling direction.	2
	(a)	Spin	
	(b)	Spiral	
	(c)	Vortex	
15.	muc	Maya which of the following factor sets how the a moving rigid body resists movement nst another rigid body's surface?	2
	(a)	Friction	
	(b)	Static Friction	
	(c)	Dynamic Friction	
16.	valı	Maya a attribute lets you set the are of the attribute individually for each icles of the object.	2
	(a)	per particle	
	(b)	per object	
	(c)	per vertex	
17.	mud	Maya particle dynamics sets how ch of a particle object's velocity attribute value etained from frame to frame.	2
	(a)	Drag	
	(b)	Goal	
	(c)	Conserve	

3.		laya 'Scale Rate by Object Size' attribute not lable when particle emitter type is	2
	(a)	Volume	
	(b)	Directional	
	(c)	Surface	
€.	Part part	icles collide with geometry to create new icles upon contact. In Maya the process called	2
	(a)	Per Point Emission Rate	
		Particle Collision Event Editor	
	(c)	Spawn	
0.		article object is a collection of particles that	2
	(a)	attributes	
		shapes	
	(c)	speed	
1.		Maya you can't scale the effect of fields, sions, springs and goal on particles.	2
	(a)	True	
	(b)	False	
2.	In N	Maya dynamics, emitters generate moving or	2
	(a)	particles as an animation plays.	
	` '	static	
	(c)		
3.	In N	Maya, Dynamics do not affect the child object's	2
	transform values.		
	(a)	True	
		False	

24.	In Maya dynamics, volume emitters emit particles		
	from a volume.		
	(a) open		
	(b) closed		
	(c) fixed		
25.	can t be infracticed by		
	deamons.		
	(a) Multibody		
	(b) Particles		
	(c) Realwave		
26.	, and the second of polygon of	2	
	vertex number by Realflow's GUI.		
	(a) True		
	(b) False		
27.	======================================	2	
	attribute and effective tool to sharpen meshes and eliminate the rounded and "blobby" look.		
	(a) Filters		
	(b) Smooth		
	(c) Particle Density		
28.	Surface deformation can be exported from 3Ds	2	
	Max to Realflow with file format.	_	
	(a) FBX		
	(b) OBJ		
	(c) SD		
29.	In Realflow one object can only be controlled	2	
	dynamically, there is no option for manual		
	animation.		
	(a) True		
	(b) False		

30. In Realflow tries to limit a fluids 2 expansion tendency. (a) Ext pressure (b) Surface tension (c) Int pressure Answer the below questions with a detailed diagram/flow chart. Each question carries 10 marks 1. Explain the production process involved in 10 creating a "Realistic Campfire" in 3Ds Max. 2. Describe the production process and integration 10 between Maya/Max and Realflow for the below examples: (a) Bottle filling with water Cream falling down on a cake (b) 3. Explain the stepwise process involved to create a 10 realistic simulation of an explosion using Maya Fluid dynamics. 4. Define Newton field and Uniform field in Maya 10 and explain their usage in brief.