BACHELOR OF ARTS IN 3D ANIMATION AND VISUAL EFFECTS

Term-End Theory 00884

June, 2013

BNM-001 : ANIMATION PRODUCTION PIPELINE

Time: 3 hours Maximum Marks: 100

(Weightage 100%)

Note: Attempt All questions.

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

- 1. In 3DS Max The Drag space warp increases particle velocity by a specified amount within a specified range.
 - (a) True
 - (b) False
- 2. In 3DS Max Particle Flow Birth operator Emit Start option defines the frame number at which the operator starts emitting particles.
 - (a) True
 - (b) False

3	In 3DS Max Particle flow is			
	(a)	Non Event driven particle system.		
	(b)	Event Driven particle system		
	(c)	None of the above		
4.	In 3DS Max tools is used to connect			
	particles with the deflectors.			
	(a)	Select and Link		
	(b)	Group		
	(c)	Bind to Space Warps.		
5.	In particle flow what is the default percentage			
	value of the particles in the system produced in			
	the viewport ?			
	(a)	33.33%		
	(b)	50%		
	(c)	100%		
6.	In 3DS Max which objects are used to deform the			
	shape of an object ?			
	(a)	Rigid Body		
	(b)	Soft body		
	(c)	Deflectors		
7.	Motion blur is supported for hardware particle			
	rendering in mental ray in maya.			
	(a)	True		
	(b)	False		

8.	In m	aya the attribute lets you set the		
	value of the attribute for all particles in a particle			
	system.			
	(a)	Per Particle		
	(b)	Per object		
	(c)	Goal		
9.	In M	aya softbody particles can be connected to		
	the fields influence with			
	(a)	Softbody Relationship Editor		
	(b)	Field Relationship Editor		
	(c)	Dynamic Relationship Editor		
10	Y 1 77 .	1 (1 (1)		
10.	Which of the following dynamics in maya can affect the movement of passive rigid body?			
	(a)	Fluid		
		Particles		
	(c)	None		
11.	Whic	ch constraints is used in Maya nCloth to		
	attach specific nCloth components with an			
	object ?			
	(a)	Transform Constraint		
	(b)	Component to Component constraint		
	(c)	Point to surface constraint		

12.	Which option is used to improve nParticles				
	performance in Maya by saving simulation data				
	in server or hard disk?				
	(a)	Save as nCloth			
	(b)	Export as nCloth			
	(c)	nCache			
- 1					
13.	Inside realflow an object can be animated manually or it can be moved dynamically.				
	(a)	True (b) False			
14.	format is used to export animated object from any 3D software like 3DS Max to realflow.				
	(a)	FBX (b) SD (c) OBJ			
15.	Which of the below options cannot be added to Force operator in particle flow?				
	(a)	Deflector			
		Gravity			
	,	Vortex			
		wer the below questions in brief 15 lines) each question carries 10 marks.			
1.	Define the following terms in maya particle				
	dyn	amics			
	(a)	Rate of an emitter			
	(b)	Conserve value			

- **2.** Explain shape instance operator and material frequency operator in 3DS Max Particle Flow.
- **3.** Explain 2 different process to control the color of a particle system in maya.
- 4. Define Maya Fluid Dynamics and give two examples of real world events that can be simulated with Maya Fluid Dynamics.

Answer the below question with a detailed diagram /Flow chart. Each question carries 15 marks. Attempt any 2 question.

- 1. Explain in detail the production Process and the different departments involved to create a 3D animated Feature Film.
- 2. Describe the Production Process and integration between Maya / Max and Real Flow for the below examples.
 - (a) Filling a 3D bowl with liquid chocolate (CG liquid chocolate using real flow)
 - (b) Oil spill from a oil tanker.
- 3. Explain the step wise process involved to create a realistic simulation of a Car Crash using Maya Ncloth.