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BNM-001

ID BACHELOR OF ARTS IN 3D ANIMATION AND VISUAL EFFECTS ∞. 0

Term-End Theory

December, 2011

BNM-001 : ANIMATION PRODUCTION PIPELINE

Time : 3 Hours

Maximum Marks : 100 (Weightage 100%)

Note: All parts are compulsory.

- The following section is objective questions. Please 1. tick the right answers. Each question carries 2 marks.
 - In 3DS Max Space warps are renderable (a) objects.
 - (i) . (ii) False True
 - In 3DS Max, Wind is similar in effect to the (b) Gravity space warp, but has added parameters for _____

(i) Decay

Direction (ii)

- Turbulence (iii)
- In Maya Multi-Streak particle render type (c) can be rendered with Maya Software Renderer.

(i) True (ii) False

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P.T.O.

(d) ______ emitter emit particles from a closed volume in Maya. You can choose from cube, sphere, cylinder, cone, and torus as shape.

(i) Shape

(ii) Volume

(iii) Point

(e) Inside Real Flow daemon can influence realwave.

(i) True (ii) False

- (f) In Real Flow the constraints inside rigid body is
 - (i) Multi joints
 - (ii) Multi body
 - (iii) None of the above
- (g) How many rigid body constraints are available in Maya ?

(i) 5 (ii) 6 (iii) 7

(h) Image sequence can be assigned as texture in Maya Particle Sprite Render Type.

(i) True (ii) False

(i) In particle flow what is the default percentage value of the particles in the system produced in the viewport ?

(i) 25 (ii) 50 (iii) 75
(j) In Maya, per object attribute lets you set the attribute value for all particles of the object collectively with a single value.

(i) True (ii) False

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(k)

Which option in realflow is used to import multiple objects as single node ?

(i) Import

(ii) Multi Servo

(iii) Multi Body

(1)

In Maya the ______ render type is a combination of Streak and MultiPoints render types.

(i) Sprites

(ii) Points

(iii) MultiStreak

(m) Which operator gives an angular velocity to particles in an event, with optional random variation ?

(i) Spin

(ii) Rotation

(iii) Speed

 In gravity space warps Increasing the Decay value causes gravity strength to diminish as distance increases from the position of the gravity warp object.

(i) True (ii) False

(0)

In 3DS Max particle flow _____ operator can be used to kill a particle.

(i) Particle Age.

(ii) Shape Mask

(iii) Keep apart.

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P.T.O.

- 2. Answer the below questions in brief (min 15 lines) each question carries 10 marks each.
 - (a) What is the difference between uniform field and gravity field in Maya ?
 - (b) In 3DS Max explain the Bounce and Friction attribute of a deflector. Give example for each
 - (c) Define particles and give four examples of real world events that can be simulated with particle system.
 - (d) Explain in brief 2 Tests in particle flow. Give example of each.
- Answer the below Question with a detailed diagram/Flow chart. Each question carries 15 marks. Attempt any 2 question.
 - (a) Explain the Production process involved in creating a 3D object blast in Maya.
 - (b) Describe the Production process and integration between Maya/Max and Real Flow for the below examples.
 - (i) Filling a 3D glass with water (CG water using real flow).
 - (ii) 3D object transforming into liquid.
 - (c) Explain the step wise process involved to create a realistic simulation of a cloth object tearing in 2 pieces.

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