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BACHELOR OF ARTS IN 3D ANIMATION AND VISUAL EFFECTS

Term-End Theory

June, 2014

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.

- 1. In 3Ds Max Find Target Test Can't be used with any animated object.
 - (a) True (b) False
- 2. In 3Ds Max _____ lets the particle system check particle speed, acceleration or the rate of circular travel and branch accordingly.
 - (a) Acceleration Test
 - (b) Speed Test
 - (c) Velocity Test
- **3.** In 3Ds Max the ______ enables a smooth transition in the rotational component of a particle, so that the particle can gradually rotate to a specific orientation over a specific period.
 - (a) Go To Rotation Test
 - (b) Spin
 - (c) Rotation

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- **4.** In 3Ds Max the______is a universal deflector that lets you use any object as a particle deflector.
 - (a) Deflector
 - (b) S Deflector
 - (c) U Deflector
- 5. In 3Ds Max the ______space warp works like push, but applies rotational torque to the affected particles or objects rather than a directional force.
 - (a) Spin
 - (b) Motor
 - (c) Vortex
- **6.** In 3Ds Max Push applies a uniform, bidirectional force to particle systems.
 - (a) True (b) False
- 7. Which of the following Particle View Elements contains the particle diagram, and provides functions for modifying the particle system ?
 - (a) Depot
 - (b) Parameter Panels
 - (c) Event Display
- 8. 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 its material ID.
 - (a) Material Frequency
 - (b) Material Dynamic
 - (c) Material Static
- **9.** In 3Ds Max Use Send Out Test when you simply want to send particles to another event with specific conditions.
 - (a) True (b) False

- **10.** In Particle Flow Keep Apart doesn't use particle geometry; rather, it creates a spherical force field centered on the pivot of each particle.
 - (a) True (b) False
- 11. In Particle Flow Birth Operator Subframe Sampling should be on to avoid particle ______ by emitting particles at a much higher subframe resolution.
 - (a) Puffing
 - (b) Dying
 - (c) Collision
- **12.** The ______ setting is unavailable when using Speed Space Follow in Rotation Operator.
 - (a) Axis Control
 - (b) Random
 - (c) Divergence
- **13.** In Maya Field Attenuation sets how much the strength of the field increases as distance to the affected object increases.
 - (a) True (b) False
- 14. In Maya Point Render Type of Particle System can be rendered with Maya Mental Ray Renderer.(a) True(b) False
- **15.** In Maya 'Scale Rate By Object Size' attribute not available when particle emitter type is
 - (a) Volume
 - (b) Directional
 - (c) Surface
- **16.** Which of the following field in pulls objects in a circular or spiraling direction ?
 - (a) Spin (b) Spiral (c) Vortex

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- **17.** In Maya ______ sets how much a moving rigid body resists movement against another rigid body's surface.
 - (a) Dynamic Friction
 - (b) Static Friction
 - (c) Friction
- 18. In Maya Spring creation option box attributes ______ creates springs between all pairs of selected points. Choose this option when you want an object to have a uniform spring structure throughout its shape.
 - (a) Wireframe
 - (b) All
 - (c) Min/Max
- **19.** In Maya fluid dynamics if the Buoyancy value is positive the Density represents a substance that is heavier than the surrounding medium, like bubbles in water, and will thus fall. Negative values cause the Density to rise.
 - (a) True (b) False
- 20. In Maya nCloth Component to Component constraints attach nCloth components (vertices, edges or faces) to other nCloth or passive object surfaces.
 - (a) True (b) False
- **21.** In Maya a ______ attribute lets you set the value of the attribute individually for each particle of the object.
 - (a) per particle
 - (b) per object
 - (c) per vertex

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- **22.** In Maya particle dynamics ______ sets how much of a particle object's velocity attribute value is retained from frame to frame.
 - (a) Drag
 - (b) Goal
 - (c) Conserve
- 23. In Maya fluid dynamics increasing the _______ increases the number of steps used by the solver to compute the incompressibility of the fluid flow.
 - (a) Solver Quality
 - (b) Subframe Sampling
 - (c) Surface Ratio
- 24. In Maya Passive rigid body parented to a hierarchy may not interact correctly with active bodies and constraints.
 - (a) True (b) False
- **25.** Which of the following real flow element can't be influenced by deamons ?
 - (a) Multibody
 - (b) Particles
 - (c) Realwave
- **26.** Objects cannot be modified in terms of polygon or vertex number by RealFlow's GUI.
 - (a) True (b) False
- 27. In Realflow _______ is a very important attribute and effective tool to sharpen meshes and eliminate the rounded and "blobby" look.
 - (a) Filter
 - (b) Smooth
 - (c) Particle Density

28 In Realflow standard geometry scale value for any object exported from 3Ds Max should be

(a) .1 (b) .01 (c) 1.0

29. Which of the below is not a particle type in realflow ?

(a) Gas (b) Dumb (c) Water

- **30.** With the ______ emitters you can create filaments from an object's vertices.
 - (a) Fill volume
 - (b) Fibers
 - (c) Bitmap

Answer the below questions with a detailed diagram /Flow chart. Each question carries 10 marks.

- 1. Explain the Production process involved in creating a "Fireworks" in 3Ds Max.
- 2. Describe the Production Process and integration between Maya/Max and RealFlow for the below examples.
 - (a) Milk falling down on a pot (Milk using real flow).
 - (b) Soft drinks splashing out from bottle (soft drinks to be created using realflow).
- 3. Explain the step wise process involved to create a realistic simulation of an "Explosion" using Maya Particles and Rigid Body Simulation.
- **4.** Define Gravity field and Newton field in Maya and explain their **us**age in brief.

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