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BACHELOR OF ARTS IN 3D ANIMATION AND VISUAL EFFECTS

Term-End Theory December, 2013

01938

BNM-001

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.** To use Particle Age Map which operator will be used ?
 - (a) Material Dynamic
 - (b) Material Static
 - (c) Mapping
- 2. Which one of the following test operator checks whether a specific amount of time has passed since the start of the animation ?

(a) Life test (b) Lifespan (c) Age Test

- **3.** In particle flow user interface the ______ contains all Particle Flow actions. , as well as several default particle systems.
 - (a) Event Display
 - (b) Depot
 - (c) Parameter Panel

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- 4. Which of the following operator uses an animated texture to calculate the timing, location and scale of particles ?
 - (a) Birth Texture
 - (b) Birth Pain
 - (c) Birth

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- 5. Find Target Operator can't be used without any target geometry.
 - (a) True (b) False
- 6. Spin Rate is the rate of revolution in degrees per
 - (a) 15th Frame
 - (b) Frame
 - (c) Second
- 7. ______ operator lets you control particle speed and direction with any object or objects in the scene.
 - (a) Speed By Surface
 - (b) Find Target
 - (c) Shape Mark
- 8. Which of the following deflector type is not supported by Collision Spawn Test?
 - (a) Deflector
 - (b) Dynaflect
 - (c) UDeflector
- 9. The _____ lets you send a specific number of particles to the next event, keeping all remaining particles in the current event.
 - (a) Send Out Test
 - (b) Split Selected Test
 - (c) Split Amount Test

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- **10.** _____ applies a uniform, unidirectional force to particle systems.
 - (a) Gravity
 - (b) Push
 - (c) Wind
- **11.** When Decay is set to _____, the Wind warp has the same strength throughout world space.
 - (a) 0.0
 - (b) 1.0
 - (c) 100.0
- 12. In 3DS Max Space Warps influence object space.
 - (a) True
 - (b) False
- **13.** Particles collide with geometry to create new particles upon contact. In Maya the process called
 - (a) Per Point Emission Rate
 - (b) Particle Collision Event Editor
 - (c) Spawn
- 14. In Maya Sphere Render Type of Particle System can be rendered with Maya Software Renderer.(a) True(b) False
- 15. In Maya animated image sequence can't be applied to the sprite particle type as texture.(a) True(b) False
- **16.** In Maya 'Scale Rate By Object Size' attribute only available when particle emitter type is _____.
 - (a) Volume
 - (b) Directional
 - (c) Omni

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- 17. Which of the following is not the emitter type available in Real Flow ?
 - (a) Circle
 - (b) Square
 - (c) Hexagonal
- **18.** ______ sets how much the strength of the field diminishes from the central axis.
 - (a) Damping
 - (b) Use Max Distance
 - (c) Attenuation
- **19.** Which of the following field in Maya pushes objects away or pulls them toward itself, like a magnet ?
 - (a) Radial
 - (b) Newton
 - (c) Uniform
- **20.** In Maya ______ contains the number of seconds each particle in the object has existed since the first frame.
 - (a) Lifespan
 - (b) Lifespan Random
 - (c) Age
- **21.** In Maya ______ sets how much a rigid body resists moving from resting contact with another rigid body.
 - (a) Rest Friction
 - (b) Static Friction
 - (c) Dynamic Friction
- 22. In Maya Spring creation option box attributes ______ creates springs between all particles on the outer edges of a soft body.
 - (a) Min/Max
 - (b) All
 - (c) Wireframe

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P.T.O.

- **23.** In Maya Fluid dynamics if the ______ value is positive the Density represents a substance that is lighter than the surrounding medium, like bubbles in water, and will thus rise. Negative values cause the Density to fall.
 - (a) Buoyancy
 - (b) Mass
 - (c) Weight

24. In Maya Fluid Dynamics ______ represents the resistance of the fluid to flow, or how thick, and non - liquid the material is.

- (a) Surface Density
- (b) Surface Tension
- (c) Viscosity
- **25.** In Realflow Realwave mesh can be influenced by daemons.

(a) True (b) False

- **26.** If one object has surface deformation , which file format should be used to export that deformation from 3DS Max to Realflow?
 - (a) SD
 - (b) OBJ
 - (c) FBX
- 27. In Realflow which of the following option acts like a constraints between two objects?
 - (a) MultiServo
 - (b) MultiBody
 - (c) MultiJoint
- **28.** In Realflow one object can only be controlled dynamically there is no option for manual animation.
 - (a) True (b) False

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- **29.** In Realflow ______ tries to limit a fluid's expansion tendency.
 - (a) Int Pressure
 - (b) Ext Pressure
 - (c) Surface Tension
- **30.** In Realflow with ______ daemon it's possible to define a life span for the particles and remove them when this limit is reached.
 - (a) k Life
 - (b) k Age
 - (c) k Time

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

- **1.** Explain the Production process involved in creating a " Animated Character disintegrate into smoke" in 3ds Max.
- 2. Describe the Production Process and integration between Maya/ Max and Real flow for the below examples.
 - (a) Honey falling down on a surface (Honey using real flow)
 - (b) CG Ship floating on ocean. (Ocean surface to be created using real flow)
- 3. Explain the step wise process involved to create a realistic simulation of a Wall Collapse using Maya Rigid Body Simulation.
- 4. Define Drag field and Radial field in Maya and explain their usage in brief.