# BACHELOR OF ARTS IN 3D ANIMATION AND VISUAL EFFECTS 

Term-End Theory Examination
December, 2014
$\square 1 \square$

## BNM-002 : CASE STUDIES

Time : 3 hours

Maximum Marks : 100
(Weightage 100\%)
Note: Attempt all questions.

The following section has objective type questions. Choose the correct answer. Each question carries 2 marks :

1. Which mask node can create an open shape in Fusion?
(a) Ellipse
(b) Polygon
(c) Rectangle
2. Which statement is true for Crop tool?
(a) Crop tool changes the resolution of the image.
(b) Crop tool changes the rotation of the image.
(c) Crop tool changes the scale of the image.
3. Nodal Pan Camera motion doesn't gives a parallax.
(a) True
(b) False
4. OpenEXR format was developed by $\qquad$ .
(a) Pixar
(b) ILM
(c) DD
5. jpg format is capable to store RGBA channel.
(a) True
(b) False
6. The tool is used to destroy any particle that crosses or intersects its region.
(a) ParticleKill
(b) ParticleTurbulence
(c) ParticleFlock
7. The ___ converts the particle system to either an image or geometry.
(a) pBounce tool
(b) pKill tool
(c) pRender tool
8. Lightwrap effect can be created using Matte control tool.
(a) True
(b) False
9. Which statement is false for Resize tool? 2
(a) Increase or decrease the resolution of an input image.
(b) Scale the input image.
(c) Control the rotation of the input image.
10. 3D particle system always requires to produce a 2D image using $\qquad$ node.
(a) pRender
(b) Render
(c) 3D Render
11. The pSpawn tool makes each affected particle act as an emitter that can produce one or more particles of its own.
(a) False
(b) True
12. Which statement is true ? 2
(a) The DVE tool encompasses image rotations, perspective changes and Z moves.
(b) The Transform tool encompasses image rotations, perspective changes and Z moves.
13. In PFTrack, Focal length can be detected using
$\qquad$ .
(a) Estimate Focal Length
(b) Test Object
(c) Scene Orientation
14. In PFTrack, candidate numbers define the number of candidate trackers to generate for each frame.
(a) True
(b) False
15. $\qquad$ is an important term in any tracking software.
(a) Flat
(b) Parallax
(c) Clip
16. The $\qquad$ node can be used to estimate camera motion using a set of feature tracks in PFTrack.
(a) Build Lens
(b) Camera Solver
(c) Edit Camera
17. The Camera Solver can be run in the background by $\qquad$ on the Solve All button.
(a) Alt - Clicking
(b) Alt + Shift - Clicking
(c) Shift - Clicking
18. Exhaustive parameter increases overall solving process time.
(a) False
(b) True
19. The Build Lens node can be used to construct a lens model from multiple images of a $\qquad$ in PFTrack.
(a) Circle grid
(b) Calibration grid
(c) Line grid
20. The Geometry Track node can be used to track - object using a triangular mesh in PFTrack.
(a) static
(b) moving
(c) point
21. In object tracking process, Geometry Track node supports $\qquad$ file formats.
(a) .OBJ
(b) .MAX
(c) .MA
22. User feature in PFTrack cannot be used for
$\qquad$ .
2
(a) object track
(b) manual track
(c) masking
23. The $\qquad$ node allows a geometric model to be inserted into the scene to test quality of the camera track.
(a) Camera Solver
(b) Test Object
(c) Merge Camera
24. The is able to export cameras,
trackers and moving objects from the PFTrack
Software.
(a) Export Node
(b) Camera Solver
(c) Test Object
25. The node is able to swap the background clip with another clip. 2
(a) Input Footage
(b) Raw Footage
(c) Replace Footage
BNM-002
26. $\qquad$ node in PFTrack.
(a) Barrel distortion
(b) Triangle distortion
(c) Point distortion
27. Coordinate system once set in PFTrack, can be adjusted in 3D application.
(a) True
(b) False
28. Shortcut of video playback in PFTrack is
$\qquad$ .

2
(a) Shift + A
(b) Spacebar
(c) Enter
29. The $\qquad$ is very helpful when complex image modifications such as lens distortion or rolling shutter fixes are used.
(a) Cache node
(b) Test Object node
(c) Camera Solver node
30. Frame Rate defines the number of frames per ___ for the clip.
(a) second
(b) minute
(c) hour
Answer the following questions in brief. Each questioncarries 10 marks.
31. Why do we use CG render passes in CG-live action integration? Explain Diffuse and Specular Pass. ..... 10
32. Describe Camera match moving pipeline with flow chart for VFX shot. ..... 10
33. Explain Camera projection method using flow chart. ..... 10
34. Describe the importance of set extension in VFX with supporting compositing tools. ..... 10

