

**BACHELOR OF ARTS IN 3D ANIMATION AND
VISUAL EFFECTS**

Term-End Theory Examination

December, 2015

00271

BNM-002 : CASE STUDIES

Time : 3 hours

Maximum Marks : 100

(Weightage : 100%)

Note : *Attempt all questions.*

SECTION - A

The following section has objective questions. Please tick the **right** answer. Each question carries **2** marks.

1. In Fusion, _____ are used to organize in a Hierarchy a tree of folders. **2**
 - (a) Containers
 - (b) Bins
 - (c) Group

2. To generate a virtual camera in 3D environment which node is used ? **2**
 - (a) Locator 3D
 - (b) Camera 3D
 - (c) Merge 3D

3. The merge 3D tool is used to : 2
- (a) Combine separate 3D elements into the same 3D environment.
 - (b) Combine separate 2D elements into the same 3D environment.
 - (c) Combine separate 3D elements into the same 2D environment.
4. In Fusion, a Point Cloud is generally a large number of _____ created by 3D tracking software. 2
- (a) box
 - (b) nulls
 - (c) group
5. To represent 2D image in the 3D space which node is used ? 2
- (a) Image Plane 3D
 - (b) Shape 3D
 - (c) Text 3D
6. The _____ can be used to apply a variety of mathematical and logical operations on the channels in an image. 2
- (a) Channel Booleans Tool
 - (b) Color Booleans Tool
 - (c) Color Correct Tool
7. Lens Distort Tool is used to remove or add lens distortion to an image. 2
- (a) True
 - (b) False

8. The Loader tool is used to load footage from the hard drive or network storage. 2
(a) False
(b) True
9. Build Lens node require minimum _____ vanishing points in PF Track. 2
(a) two
(b) one
(c) zero
10. The Edit Camera node can be used to : 2
(a) Manually edit a camera path
(b) Manually edit a object path
(c) Automatically edit a camera path
11. The _____ can be used to change the overall orientation of the scene with respect to the ground plane. 2
(a) Transform scene node
(b) Orient scene node
(c) Scale scene node
12. The Export Node can be used to export lens distortions. 2
(a) True
(b) False
13. Shift+S is a shortcut of : 2
(a) Camera solve
(b) Object solve
(c) Auto tracker
14. Shift+A is used for Auto Track. 2
(a) True
(b) False

15. Measurement taken at the time of shoot for camera tracking is known as survey data. 2
(a) True
(b) False
16. pFriction node decrease the speed of particles. 2
(a) True
(b) False
17. Barrel distortion is type of lens distortion. 2
(a) True
(b) False
18. PF Track is able to import : 2
(a) .Obj format
(b) .ma format
(c) .Ascii format
19. If the shot has only Zoom in/Zoom out effect then the camera motion in PF Track should be set to 2
_____ .
(a) Free
(b) Translation
(c) Stationary
20. The cache node can be used to render out a clip to disk. 2
(a) True
(b) False
21. There is no option to change the fps rate of footage in PF Track. 2
(a) True
(b) False
(c) Depends on the extension of the footage

22. Cow is a default test object in PF Track. 2
(a) True
(b) False
23. _____ option is used for in-coming manual trackers as a guide for the auto tracker in PF Track. 2
(a) Manual
(b) Guide
(c) Transform
24. PF Track can export lens distortion using _____ format. 2
(a) PF Barrel
(b) PF Cute
(c) PF Clean
25. JPG file format is a 16 bit image. 2
(a) True
(b) False
26. The Luma keying method is used for the overall luminance of an image to create an alpha channel. 2
(a) True
(b) False
27. In Fusion, Pspawn is responsible to : 2
(a) Stop the particles
(b) Delete particles
(c) Emit new particles
28. Resize tool is used to increase or decrease the resolution of an input image. 2
(a) True
(b) False

29. The _____ tool is used to create Volumetric Fog on image containing XYZ position channels. 2
(a) Depth Fog
(b) Volume Fog
(c) Distance Fog
30. Resize and Scale tools are same in Fusion. 2
(a) True
(b) False

SECTION - B

Answer the following questions with detailed diagrams/flow charts. Each question carries **10** marks. Attempt **all** questions.

1. Describe the method of creating a fire using Fusion Particles. 10
 2. Describe Manual Tracking and it's benefits along with relevant example. 10
 3. What is Survey data ? How to use survey data in PF Track ? 10
 4. Describe set extension process using camera projection method in Fusion. 10
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