

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

Term-End Theory Examination

December, 2017 00090

BNM-002 : CASE STUDIES

Time : 3 hours

Maximum Marks : 100

Weightage 100%

Note : *Attempt all questions.*

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

SECTION - A

1. pFriction decreases the speed of particles. **2**
 (a) True (b) False

2. Which node is used to randomize the particles **2**
 movement ?
 (a) pTurbulence
 (b) pFlock
 (c) pBounce

3. Fusion text can create the drop shadow effect in **2**
 Fusion.
 (a) True (b) False

4. Motion capture shot needs minimum two camera shoot. 2
(a) True (b) False
5. Mushroom is a _____ in PFTrack. 2
(a) Test object
(b) 3D marker
(c) Survey data
6. _____ is used for the Auto track feature. 2
(a) Shift + F3
(b) Shift + F4
(c) Shift + F5
7. PFTrack can create normal maps from 2D videos. 2
(a) True (b) False
8. Which node is used for Zoom Blur effect. 2
(a) Gaussian Blur
(b) Vector Motion Blur
(c) Directional Blur
9. Fusion can import 3d objects. 2
(a) True (b) False
10. Which of the following is not a 3D object export format ? 2
(a) .comp (b) .obj (c) .3ds

11. _____ is not affected by light in fusion. 2
(a) Sphere (b) Box (c) Texture
12. _____ is used for super imposing nodes in Fusion. 2
(a) Merge 3D (b) Add (c) Merge
13. Fusion particles can be rendered by using _____ 2
(a) pRender
(b) pParticle Render
(c) Render
14. _____ node in Fusion creates the camera focus effect in images. 2
(a) Blur
(b) Chartlett
(c) Defocus
15. The mask in PFTrack is used to 2
(a) Extract the region from the footage
(b) Create alpha channel in the footage
(c) Avoid the pixels which can create disturbance in camera tracking
16. Shortcut to create a new mask in PFTrack is _____ 2
(a) Shift + F4
(b) Shift + F5
(c) Shift + F6

17. _____ format is used for exporting camera information for Fusion from PFTrack. 2
(a) .3ds (b) .ma (c) .avi
18. The PFTrack camera is used for rendering the final footage. 2
(a) True (b) False
19. Measurement taken at the time of shoot for camera tracking is known as _____. 2
(a) Survey data
(b) Meta data
(c) RAW data
20. _____ is used to create New User Features. 2
(a) Shift + F3
(b) Shift + F4
(c) Shift + F5
21. The user track node is used to create _____ generate trackers. 2
(a) Manually (b) Auto (c) Static
22. _____ is a short cut for the Estimate Focal Length. 2
(a) Ctrl + E
(b) Ctrl + F
(c) Ctrl + G

23. Saver nodes can't render .jpg files to hard disk. 2
(a) True (b) False
24. Particles speed can be controlled by _____. 2
(a) pBounce
(b) pDirectional Force
(c) pFriction
25. Resize node is used to 2
(a) Change the resolution of an image
(b) Delete the temporary data from hard disk
(c) Format the hard disk
26. A _____ tool tiles represent a 3D tool in 2
fusion.
(a) Light Green
(b) Light Grey
(c) Light Blue
27. Which node is used to make image mask ? 2
(a) Bitmap
(b) Checker
(c) Image plane
28. OpenExr format is used to export 3d geometry in 2
Fusion.
(a) True (b) False

29. Shift + W is a short cut to create _____. 2
- (a) Auto tracker
 - (b) Tracker
 - (c) Test object
30. R - is used for _____ in PFTrack. 2
- (a) Remove all earlier keyframes
 - (b) Reserve the frame and forward
 - (c) Remove all later keyframes

SECTION - B

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

1. Describe in detail the various departments 10
involved in executing a VFX shot.
2. Describe chroma keying process for VFX shot. 10
3. Describe the usages of point cloud data in set 10
extension example.
4. Explain a case study of **any one** VFX shot from 10
the below films .
 - (a) Avenger - Civil war
 - (b) Jungle Book
 - (c) Starwars - The Force Awakens