

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

Term-End Theory Examination

June, 2018

00283

BNM-002 : CASE STUDIES

Time : 3 hours

Maximum Marks : 100

(Weightage 100%)

Note : *All questions are compulsory.*

SECTION A

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

1. In PFTrack, MMB is used to _____ . 2
 - (a) Pan
 - (b) Scale
 - (c) Zoom in and Zoom out

2. Orient scene node is used to scale the entire scene in PFTrack. 2
 - (a) True
 - (b) False

3. Which of the following camera movements does have parallax ? 2
- (a) Dolly
 - (b) Pan
 - (c) Stationery
4. Full form of RMS is _____ . 2
- (a) Root-Mean-Square
 - (b) Root-Mass-Square
 - (c) Root-Mean-Squart
5. Optical flow describes the _____ motion of every pixel in your footage. 2
- (a) 3D
 - (b) 2D
 - (c) 2.5D
6. In PFTrack, user feature's parameter - R is considered as _____ . 2
- (a) Remove from this frame and forward frame
 - (b) Apply from this frame and forward
 - (c) Reserve the frame and forward
7. Loader node is used to _____ . 2
- (a) Import image sequence
 - (b) Create the cache files
 - (c) Save the Fusion COMP files

8. The extension of a Fusion file is _____ . 2
- (a) .comp
 - (b) .ma
 - (c) .fw
9. Which node is used for 2D matte painting projection on 3D geometry? 2
- (a) Camera
 - (b) Transform
 - (c) Project 3D
10. Cineon image contains 8 bit color per channel. 2
- (a) True
 - (b) False
11. Depth Blur node belongs to _____ category in Fusion. 2
- (a) Rich pixel
 - (b) New pixel
 - (c) Deep pixel
12. _____ keyboard keys are used to display for the selected tool. 2
- (a) Numeric
 - (b) Character
 - (c) Special

13. _____ is used to swap the foreground and background input connection. 2
- (a) Ctrl + E
 - (b) Ctrl + M
 - (c) Ctrl + W
14. _____ tool tiles represent the actively selected tool in Fusion. 2
- (a) Yellow
 - (b) Blue
 - (c) Green
15. The _____ keys on the numeric keypad can be used on the active viewer to zoom in and out. 2
- (a) < or >
 - (b) + or -
 - (c) [or]
16. In Fusion, 3D viewer rotation can be done by using the middle mouse button. 2
- (a) True
 - (b) False
17. The _____ track node is used to track moving objects in PFTrack. 2
- (a) Auto
 - (b) Manual
 - (c) Geometry

18. Barrel is a type of lens distortion. 2
- (a) True
 - (b) False
19. _____ color represents default mask color in PFTrack. 2
- (a) Pink
 - (b) Black
 - (c) White
20. _____ checkbox is used for incoming manual trackers as a guide for the auto trackers. 2
- (a) Reference
 - (b) Guide
 - (c) Direct
21. Test objects is used to judge camera tracking accuracy. 2
- (a) True
 - (b) False
22. _____ is used to generate the particles in Fusion. 2
- (a) pGenerator
 - (b) pEmitter
 - (c) pSource

23. _____ contains motion parallax information. 2
- (a) Dolly shot
 - (b) Static shot
 - (c) Nodal pan
24. Saver node is used to _____. 2
- (a) Render the files to hard disk
 - (b) Create the cache files
 - (c) Save the Fusion COMP files
25. The extension of a Fusion file is *.comps. 2
- (a) True
 - (b) False
26. _____ tool is required to render 3D objects in Fusion. 2
- (a) Render
 - (b) Render 3D
 - (c) Render 2D
27. A Look Up Table (LUT) is a table of values used to transform the _____ of an image. 2
- (a) Color and luminance
 - (b) Saturation and contrast
 - (c) Color and keying

28. Point Cloud is a group of _____ that generate from the 3D camera tracking software. 2

- (a) Geometry
- (b) Camera
- (c) Locater

29. _____ channels can contain depth information and mapping coordinates in Fusion. 2

- (a) Auxiliary
- (b) Data
- (c) Expression

30. In PFTrack, RMB is used to _____ . 2

- (a) Pan
- (b) Scale
- (c) Zoom in and zoom out

SECTION B

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

31. Explain a case study of any one VFX shot from the given films : 10
- (a) Avengers : Age of Ultron
 - (b) Jurassic World
 - (c) X-Men : Apocalypse
32. Describe the method of creating fire in Fusion. 10
33. Explain the camera tracking process for a dolly shot. 10
34. What is the difference between Luma keyer and Difference keyer ? 10
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