

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

Term-End Theory Examination

June, 2019

00693

BNM-002 : CASE STUDIES

Time : 3 hours

Maximum Marks : 100

(Weightage 100%)

Note : Attempt all questions.

SECTION A

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

1. Which is a true statement for crop tool ? 2
- (a) Crop tool changes the scale of the image.
 - (b) Crop tool changes the resolution of the image.
 - (c) Crop tool changes the rotation of the image.
2. To view the output of a particle system, add a _____ tool after the pEmitter. 2
- (a) Render
 - (b) pRender
 - (c) pImageEmitter

3. JPG 2000 format is capable to store RGBA channels. 2
- (a) True
 - (b) False
4. The _____ tool converts the 3D environment into 2D image Fusion. 2
- (a) Ribbon 3D
 - (b) False Render 3D
 - (c) UV Map 3D
5. In Fusion, _____ note tool is used to provide comments and history for a specific area of a computer. 2
- (a) Sticky
 - (b) Remark
 - (c) Statement
6. In Fusion, shortcut of video playback is _____ 2
- (a) Space bar
 - (b) Alt + Space bar
 - (c) Shift + Space bar

7. A value of _____ will cause the particle to possess the same velocity after the bounce as it had while entering the bounce. 2
- (a) 0.0
 - (b) 0.1
 - (c) 1.0
8. The pSpawn tool makes each affected particle act as an emitter that can produce one or more particles of its own. 2
- (a) True
 - (b) False
9. In Fusion, the Grid warp tool is a simple _____ deformation grid with flexible vertices. 2
- (a) 2D
 - (b) 3D
 - (c) None of the above
10. In PFTrack, focal length can be detected by using _____. 2
- (a) Test object
 - (b) Estimate focal length
 - (c) Scene orientation
11. _____ selects the strength of the algorithm used to apply spill suppression to the image. 2
- (a) Spill method
 - (b) Spill colour
 - (c) Suppression

12. _____ interpolates between two non-sequential images. 2
- (a) Tween
 - (b) Optical flow
 - (c) Flow speed
13. PFTrack supports the import of _____ tile geometry models. 2
- (a) .OBJ
 - (b) .MB
 - (c) .MFA
14. PFTrack can build geometry from _____. 2
- (a) single still images
 - (b) multiple still images
 - (c) Both a and b
15. Exporting in OpenEXR format will store the true optical flow vectors, along with the RGB image data for each frame. 2
- (a) True
 - (b) False
16. The _____ tool uses the overall luminance of an image to create an alpha channel. 2
- (a) Difference Keyer
 - (b) Chroma Keyer
 - (c) Luma Keyer

17. If the image sequence has been captured so that the focal length changes throughout, then in PFTrack, distortion should be estimated in _____ .

2

- (a) two or more frames
- (b) single frame
- (c) every frame

18. The _____ is used to create a ghost-like after trail of the image.

2

- (a) Trail tool
- (b) Smee Hee
- (c) Pseudo colour

19. In Fusion, _____ tool takes two stereoscopic and creates stalked images with the left and right eye either side by side or on the top of each other.

2

- (a) Combiner
- (b) Anaglyph
- (c) Splitter

20. _____ is a process that produces a matte based on the difference between two images.

2

- (a) Difference keying
- (b) Luma keying
- (c) Ultra keying

- 21.** Nodal Pan Camera motion doesn't give a parallax. 2
- (a) True
 - (b) False
- 22.** To animate a coordinate using a path, _____ on the Control and select Path from the Context menu. 2
- (a) right-click
 - (b) double-click
 - (c) left-click
- 23.** _____ is an ideal tool for pre-visualisation and animation planning in PFTrack. 2
- (a) Creating primitive
 - (b) Image modelling
 - (c) Z-Depth extraction
- 24.** Depth maps can also be exported using the OpenEXR image format. 2
- (a) True
 - (b) False
- 25.** If you import a black and white image, _____ will be used to mask out regions. 2
- (a) White areas
 - (b) Black areas
 - (c) None of the above

26. _____ is an important term in any tracking software. 2
- (a) Parallax
 - (b) Clip
 - (c) Flat
27. _____ shows the names of all of the patterns created on this tracker. 2
- (a) Tracker List
 - (b) Tracker Tool
 - (c) Track Centre
28. _____ has developed the OpenEXR format. 2
- (a) Pixar
 - (b) ILM
 - (c) Pixion
29. Clean Auto-feature tracks window is used to remove poorly tracked auto-features. 2
- (a) True
 - (b) False
30. The extension of a/an _____ file is .acp. 2
- (a) 3ds Max
 - (b) After Effects
 - (c) Fusion

SECTION B

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

31. Describe the Loader and Saver tools of Fusion. 10
 32. Explain Projection mapping process in Fusion. 10
 33. Describe the method of creating a waterfall using Fusion particles. 10
 34. What is the difference between 2D and 3D tracking? 10
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