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BRAINWARE UNIVERSITY

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Brainware University
398, Ramkrishnapur Road, Barasat
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Term End Examination 2025-2026
Programme – B.Sc.(AM)-Hons-2023
Course Name – Visual Effects (VFX)-I
Course Code - BAM50118
(Semester V)

Time : 2:30 Hours

Full Marks : 60

[The figure in the margin indicates full marks. Candidates are required to give their answers in their own words as far as practicable.]

Group-A

(Multiple Choice Type Question) 1 x 15=15

1. *Choose the correct alternative from the following :*

(i) Choose the film often credited as the first to use special effects

a) The Great Train Robbery (1903) b) A Trip to the Moon (1902)
c) Metropolis (1927) d) King Kong (1933)

(ii) Identify the filmmaker known as the 'Father of Special Effects

a) Georges Méliès b) Fritz Lang
c) Alfred Hitchcock d) Stanley Kubrick

(iii) Locate the pioneering technique used in the 1933 film King Kong to animate the giant ape:

a) Rotoscoping b) Matte painting
c) Stop-motion animation d) Motion capture

(iv) Locate the setting to adjust the order of layers in a layer-based composition.

a) Composition Settings b) Timeline Panel
c) Layer Menu d) Project Panel

(v) Select the benefit of using node-based composition for complex VFX projects.

a) Simpler interface b) Easier for beginners
c) Better control over individual elements d) Faster rendering

(vi) Choose the composition type that offers better flexibility for non-linear workflows.

a) Layer-based b) Node-based
c) Timeline-based d) Advanced layer-based

(vii) Identify the primary benefit of using projection mapping on 3D surfaces.

a) Reduces render time b) Enhances detail on flat surfaces
c) Creates dynamic textures d) Simplifies scene setup

(viii) Locate the tool in After Effects that allows texture projection onto 3D layers.

a) Camera Tracker b) 3D Camera
c) Planar Tracking d) Projection Mapping

(ix) Select the type of projection that works best for irregularly shaped objects.

a) Planar projection
b) Spherical projection
c) Cubic projection
d) Cylindrical projection

(x) Choose the tool in After Effects primarily used for rotoscoping.

a) Roto Brush Tool
b) Pen Tool
c) Selection Tool
d) Brush Tool

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(xi) Locate the control to adjust the feathering of a rotoscope mask.

a) Layer Properties
b) Effects Controls
c) Timeline
d) Composition Settings

(xii) Select the process of creating a matte or mask to separate elements from the background.

a) Keying
b) Rotoscoping
c) Matte Extraction
d) Alpha Channel

(xiii) Locate the method used to combine multiple compositions into a single project.

a) Pre-composing
b) Rendering
c) Layer merging
d) Motion tracking

(xiv) locate the elements essential for a layer-based composition in After Effects.

a) Masks, Layers, Effects
b) Previews, Nodes, Layers
c) Effects, Layers, Keyframes
d) Lights, Cameras, Effects

(xv) Choose the key benefit of using rotoscoping in 2D VFX.

a) Enhances 3D models
b) Tracks object movement
c) Removes unwanted objects
d) Separates actors from background

Group-B

(Short Answer Type Questions) 3 x 5=15

2. Define 2D composition in the context of Adobe After Effects. (3)
3. Demonstrate the use of color correction tools in After Effects to match different elements in a composition. (3)
4. Define the concept of chroma keying and its significance in multimedia production. (3)
5. Explain the importance of wire and rig removal in achieving realistic visual effects. (3)
6. Analyze the effect of different blending modes on overlapping layers in a composition. (3)

OR

Analyze the impact of frame rate changes on the motion quality of an animation. (3)

Group-C

(Long Answer Type Questions) 5 x 6=30

7. Demonstrate how rotoscopy is used to isolate elements within a video. (5)
8. Define the role of rotoscopy in the visual effects pipeline and its applications in various types of media. (5)
9. Explain the role of color correction in maintaining visual consistency across different media elements. (5)
10. Explain how blending modes enhance the compositing process in After Effects. (5)
11. Explain the steps to create a multi-layered composite using different elements in After Effects. (5)
12. Analyze the effectiveness of 2D VFX compared to 3D VFX in various multimedia projects. (5)

OR

Analyze the importance of pre-compositions in organizing complex projects in After Effects. (5)

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