

Dr. Babasaheb Ambedkar Open University
Term End Examination January – 2026

Course : DMA
Subject Code : DMA-103
Subject Name : 2D Animation

Date : 02/03/2026
Time : 11:30am to 01:45pm
Duration : 02.15 Hours
Max. Marks : 70

Section A

Answer the following (Attempt any three)

(30)

1. Explain the 12 Principles of Animation as developed by Walt Disney Studio's animators.
2. Describe the three stages of creating an animation movie: Pre-production, Production, and Post-production, listing the key tasks in each.
3. Discuss the different types of animation (Traditional, 2D Vector-based, 3D Computer, Motion Graphics, and Stop Motion).
4. Explain the concept of Color Harmony and describe at least four basic techniques for creating color schemes (e.g., Analogous, Complementary).
5. What is Storyboarding? Explain its importance in the filmmaking process and how it assists the crew.

Section B

Answer the following (Attempt any four)

(20)

1. Explain the difference between Receptive and Projective drawing.
2. What is a Model Sheet (Character Model) and why is it essential for an animator?
3. Describe the functions of the three essential audio components: Music, Dialogue, and Sound Effects.
4. Explain the "180-degree rule" in cinematography and its significance in maintaining screen direction.
5. Differentiate between Vector graphics and Bitmap images, highlighting their respective advantages.
6. Define "Onion Skinning" and explain how it helps in the 2D animation process.

Section C

Part – A (Multiple Choice Questions)

(10)

- Which principle defines speed, energy, weight, and mass of an animated subject?
A Anticipation
B Squash and Stretch
C Staging
D Arcs
- The first feature-length animation to use CGI was:
A Star Wars
B Tron Legacy
C Toy Story
D The Matrix
- Which pencil grade is the softest?
A HB
B 2H
C 9B
D 9H
- In color theory, the primary colors are:
A Cyan, Magenta, Yellow
B Red, Yellow, Blue
C Red, Green, Blue
D Orange, Green, Violet

- What does FPS stand for in animation?
A Films Per Second
B Frames Per Second
C Folds Per Second
D Fast Pace Sequence
- The technique of tracing live footage is called:
A Tweening
B Morphing
C Rotoscoping
D Keyframing
- Which tool in GIMP is used to select regions based on color similarity?
A Lasso Tool
B Fuzzy Select (Magic Wand)
C Path Tool
D Rectangle Tool
- Which aspect ratio is known as "Academy Standard"?
A 1.37:1
B 1.85:1
C 2.35:1
D 16:9
- A "Flick book" uses which optical illusion to create the impression of movement?
A Persistence of Vision
B Depth of Field
C Motion Blur
D Simultaneous Contrast
- Which software is an open-source 2D vector animation tool?
A Adobe Flash
B Toon Boom
C Synfig Studio
D Pixlr

State whether the following statements are true or false

- 1 "Warm" colors (red, orange, yellow) are said to retreat in a painting. (True/False)
- 2 A storyboard needs to be highly detailed and drawn by a professional artist to be effective. (True/False)
- 3 Dialogue is usually recorded *before* the animation production begins in 2D animation. (True/False)
- 4 Vector images can be scaled to any size without losing quality. (True/False)
- 5 "Dodge" tool in GIMP is used to darken the colors in an image. (True/False)
- 6 Secondary colors are made by mixing two primary colors. (True/False)
- 7 The "X-sheet" is also known as a Dope Sheet. (True/False)
- 8 Stop-motion animation involves moving objects in small increments between frames. (True/False)
- 9 "Hierarchy" in design refers to the arrangement of elements to signal importance. (True/False)
- 10 Charcoal is a type of wet media. (True/False)