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SARDAR PATEL UNIVERSITY
B.C.A. - (5th SEM) – EXAMINATION SEPTEMBER-2022
US05CBCA02:COMPUTER GRAPHICS

Date: 23-8-2022Time: 3-30 pm to 5-30 pm

NOTE: Right hand figure indicates the marks of each question.

Marks: [70]

Q. 1 Multiple Choice Questions (One marks each)**[10]**

- 1 _____ Persistence phosphor is used in animation.
 (A) Low (B) High (C) Medium (D) None of these
- 2 In _____ scan, picture definition is stored as a set of intensity values.
 (A) Random (B) Raster (C) Proper (D) None of these
- 3 _____ electron gun is used to maintain picture in DVST.
 (A) Primary (B) Secondary (C) Ternary (D) None of these
- 4 _____ is the equation for straight line.
 (A) $y = m \cdot x + b$ (B) $y = m/x + b$ (C) $y = m \cdot x \cdot b$ (D) $y = m \cdot x - b$
- 5 _____ obtained by adding a filled semicircle to each butt cap.
 (A) Round cap (B) Circle cap (C) Square cap (D) Semi circle cap
- 6 Originally, _____ referred to a set of cast metal character forms.
 (A) Font (B) Character (C) Metal words (D) Casted words
- 7 Rotation Point is also known as _____.
 (A) Rotation angle (B) Rotation axis (C) Pivot Point (D) Vector
- 8 A world coordinate area selected for display is called _____.
 (A) Window (B) Viewport (C) Clip window (D) None of these
- 9 Default background color of stage in FLASH is _____.
 (A) red (B) blue (C) black (D) white
- 10 Shortcut key to convert to symbol in FLASH is _____.
 (A) F6 (B) F8 (C) Shift F8 (D) Shift F6

Q. 2 Fill in the blanks and True / False. (One marks each)**[08]**

- 1 The full form of CRT is _____.
- 2 DDA stands for _____.
- 3 A scaling transformation alters the _____ of an object.
- 4 Default frame rate is _____ fps.
- 5 Beam penetration displays maximum 4 colors. (True / False)
- 6 Odd-Even rule is also known as Odd-Parity rule. (True / False)
- 7 Shear transformation that distorts the shape of an object. (True / false)
- 8 Extension of FLASH file is .fla (True / False)

Q. 3 Short answer questions (Attempt any 10 out of 12)

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- 1 Define: (1) Resolution, (2) Aspect Ratio
- 2 State disadvantages of Beam Penetration method.
- 3 Differentiate between impact and non-impact printers.
- 4 List caps used at the end of line. Explain any one.
- 5 Differentiate: Bitmap font and Outline font.
- 6 List attributes for the line. Explain any one.
- 7 Define: (1) Translation, (2) Reflection
- 8 What is scaling? And list out its types.
- 9 What is clipping? List out all clipping object.
- 10 Define: (1) Frame, (2) Layer
- 11 Explain timeline window in brief.
- 12 Explain play and stop actions of movie clip.

Q. 4 Long answer questions (Attempt any 4 out of 8)

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- 1 Explain working of CRT in detail.
- 2 List all types of input devices and explain any three in detail.
- 3 What is inside-outside test? Explain odd-even rule with example.
- 4 Write steps of DDA Algorithm.
- 5 What is text clipping? List out all types and explain it with example.
- 6 What is geometric transformation? List all 2-D geometric transformation and explain any one in detail.
- 7 Explain toolbox of flash in detail.
- 8 List different types of animation in flash. Explain any one in detail.
