| 26] | |
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| Seat No.: | |

Q.1



No. of Printed Pages: 02

| Date: 14/11/2022 (Monday) | Total: 70 Marks |
|---|------------------------------|
| Time: 10.00 AM To 01.00 PM | I Utdi. 10 inai na |
| Multiple Choice Questions. | |
| 1 Technique is used to modify or interpret existing process. | |
| A . Computer Art B. Image Processing C. Visualization | D. None of these |
| 2 persistence phosphor is used in animation. | |
| A . Low B. High C. Medium D. Very High | |
| 3. Beam penetration displays maximum colors. | |
| A.4 B.8 C.16 D. 32 | |
| 4. The overall design style for a set of characters is called | |
| A . Character Style B. Face Style C. Type Face D. Ch | |
| 5 style is used to fill an area with selected hatching | g patterns-parallel lines or |
| crossed lines. | |
| A . Hatch B. Solid C. Patterned D. Hollow | • |
| 6. A is a transformation that produces a mirror image | e of an object. |
| A. Translation B. Reflection C. Rotation D. Shear | • |
| 7. A scaling transformation alters the of an object. | |
| A . Scale B. Shape C. Size D. Orientation | |
| 8. Rotation point is also known as | - 14 34 4 |
| A. Rotation Angle B. Rotation axis C. Pivot Point D. 7 | ranslation Vector |
| 9 mode application initiates data entry. | |
| A . Request B. Event C. Sample D. None of these | |
| بخم ور بر | |
| 10 device used for selecting menu options? | |
| 10 device used for selecting menu options? A . Locater B. String C. Stroke D. Pick | |
| A. Locater B. String C. Stroke D. Pick | |
| A . Locater B. String C. Stroke D. Pick Write Short Answers For Following Questions: [ANY 10] | |
| A . Locater B. String C. Stroke D. Pick Write Short Answers For Following Questions: [ANY 10] 1. Explain the term: Resolution | |
| A . Locater B. String C. Stroke D. Pick Write Short Answers For Following Questions: [ANY 10] | |
| A . Locater B. String C. Stroke D. Pick Write Short Answers For Following Questions: [ANY 10] 1. Explain the term: Resolution 2. State disadvantage of Beam Penetration Method | |
| A. Locater B. String C. Stroke D. Pick Write Short Answers For Following Questions: [ANY 10] 1. Explain the term: Resolution 2. State disadvantage of Beam Penetration Method 3. Write full form of LED 4. List various Character Attributes. | |
| A. Locater B. String C. Stroke D. Pick Write Short Answers For Following Questions: [ANY 10] 1. Explain the term: Resolution 2. State disadvantage of Beam Penetration Method 3. Write full form of LED 4. List various Character Attributes. 5. Explain Gray Scale in short. | |
| A. Locater B. String C. Stroke D. Pick Write Short Answers For Following Questions: [ANY 10] 1. Explain the term: Resolution 2. State disadvantage of Beam Penetration Method 3. Write full form of LED 4. List various Character Attributes. 5. Explain Gray Scale in short. 6. Differentiate: Bitmap Font and Outline Font. | n t , |
| A. Locater B. String C. Stroke D. Pick Write Short Answers For Following Questions: [ANY 10] 1. Explain the term: Resolution 2. State disadvantage of Beam Penetration Method 3. Write full form of LED 4. List various Character Attributes. 5. Explain Gray Scale in short. 6. Differentiate: Bitmap Font and Outline Font. 7. Explain Point Clipping. State condition for clipping a point | nt. |
| A. Locater B. String C. Stroke D. Pick Write Short Answers For Following Questions: [ANY 10] 1. Explain the term: Resolution 2. State disadvantage of Beam Penetration Method 3. Write full form of LED 4. List various Character Attributes. 5. Explain Gray Scale in short. 6. Differentiate: Bitmap Font and Outline Font. 7. Explain Point Clipping. State condition for clipping a point 8. Define Viewing Transformation | nt. |
| A. Locater B. String C. Stroke D. Pick Write Short Answers For Following Questions: [ANY 10] 1. Explain the term: Resolution 2. State disadvantage of Beam Penetration Method 3. Write full form of LED 4. List various Character Attributes. 5. Explain Gray Scale in short. 6. Differentiate: Bitmap Font and Outline Font. 7. Explain Point Clipping. State condition for clipping a point 8. Define Viewing Transformation 9. What is Scaling? Also list out its types. | nt. |
| A. Locater B. String C. Stroke D. Pick Write Short Answers For Following Questions: [ANY 10] 1. Explain the term: Resolution 2. State disadvantage of Beam Penetration Method 3. Write full form of LED 4. List various Character Attributes. 5. Explain Gray Scale in short. 6. Differentiate: Bitmap Font and Outline Font. 7. Explain Point Clipping. State condition for clipping a point 8. Define Viewing Transformation | nt. |

| Q.3 | [A] Explain working of CRT in detail. | [05] |
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| | [B] List out all input devices and explain any two of them. | [05] |
| | <u>OR</u> | |
| | [A] Define Computer Graphics? Explain a major application area of Computer Graphics. | [05] |
| | [B] Explain in detail raster scan. | [05] |
| Q.4 | [A] Write steps for mid-point circle generation algorithm. | [05] |
| | [B] Explain flood fill algorithm (8-connected) with example. OR | [05] |
| | [A] Write steps for Bresenham line drawing algorithm | [05] |
| | [B] Write a note on line attributes. | [05] |
| Q.5 | [A] What is text clipping? List out all types and explain it with example. | [05] |
| | [B] What is geometric transformation? List all 2-D geometric transformation and explain any one in detail. | [05] |
| | <u>OR</u> | |
| | [A] Write a short note on viewing pipeline. | [05] |
| | [B] Explain in brief sutherland hodgeman polygon clipping algorithm. | [05] |
| Q.6 | [A] List logical classification of input devices and explain any three in detail. | [05] |
| | [B] Explain parallel projection and surface rendering as 3D display methods. | [05] |
| | <u>OR</u> | |
| | [A] List interactive picture-construction techniques and explain any three in detail. | [05] |
| | [B] Discuss any two general considerations in constructing a user dialog. | [05] |
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(6)