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SARDAR PATEL UNIVERSITY
B.Sc. (CA & IT) SEM : 05 EXAMINATION 2022
US05CIIT23 || COMPUTER GRAPHICS

DATE : 11.11.2022[Friday]

TIME : 10.00 AM TO 01.00 PM

MARKS : 70

Q.1 Multiple Choice Questions.

[10]

1. _____ Lens focusing produces the smallest size spot on screen.
[A]. Magnetic [B]. Electrostatic [C]. Filament [D]. None of these
2. _____ Electron gun is used to maintain picture in DVST.
[A]. Primary [B]. Secondary [C]. Ternary [D]. None of these
3. _____ Persistence phosphor is used in animation.
[A]. High [B]. Medium [C]. Low [D]. None of these
4. _____ type has small lines or accents at the end of the main character.
[A]. Symbols [B]. Sans Serif [C]. Serif [D]. Verdana
5. A _____ is a transformation that produces a mirror image of an object.
[A]. Reflection [B]. Translation [C]. Rotation [D]. Scaling
6. A scaling transformation alters the _____ of an object.
[A]. Orientation [B]. Size [C]. Shape [D]. None of these
7. _____ Brings up a search window to find basic commands
[A]. ctrl [B]. Shift [C]. Space bar [D]. Enter
8. _____ Joins selected objects together.
[A]. Ctrl + J [B]. Altr + J [C]. Shift + J [D]. J
9. You can make particles bounce off other objects using the _____ setting in the Physics panel.
[A]. Collision [B]. Bounce [C]. Jump [D]. Roll
10. An actual object that represents the volume of the fluid is _____.
[A]. Fluid [B]. Inflow [C]. Particle [D]. Outflow

Q.2 Write Short Answers For Following Questions : [ANY 10]

[20]

1. Explain the term Resolution.
2. State disadvantages of DVST.
3. Define : Bitmap
4. List attributes for the line. Explain any one.
5. Compare and contrast: serif and sans serif.
6. Define : Viewing transformation
7. What is the use of Screw in Modifiers?
8. What is Rendering?
9. What is Armature?
10. What is Limit Constraints?
11. Write use of Vertex Groups?
12. What is Field Weights panel?

Q.3 [A] Explain working of CRT in detail. [05]

Q.3 [B] Write steps of DDA Algorithm. [05]

OR

Q.3 [A] Write steps of Bresenham Line Drawing Algorithm. [05]

Q.3 [B] What is Computer Graphics? Explain in brief a major application area of Computer Graphics. [05]

Q.4 [A] Write steps to generate circle using Mid-Point Algorithm. [05]

Q.4 [B] Explain Area fill attribute [05]

OR

Q.4 [A] Explain in brief Cohen Sutherland Line Clipping Algorithm. [05]

Q.4 [B] Write a short note on Viewing Pipeline. [05]

Q.5 [A] List and explain Types of Mesh in blender. [05]

Q.5 [B] Write a short note on Basic material panels and settings in detail. [05]

OR

Q.5 [A] Explain Window and Button Control. [05]

Q.5 [B] Write a short note on Camera Setting options in Blender [05]

Q.6 [A] Write a note on : Particle Setting [05]

Q.6 [B] Explain Basic Hair Settings in blender. [05]

OR

Q.6 [A] Write a note on : Creating Fluid Effects [05]

Q.6 [B] Explain how to Create Complex Armature Chains [05]

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