Total No. of Questions : 8 | | Total No. of Printed Pages : 3

Paper Code: 21321

F-421

B.C.A. (Fifth Semester) Examination, 2021 (New Course)

Paper-BCA-501-N

COMPUTER GRAPHICS AND ANIMATION

Time: Three Hours J [Maximum Marks : 70

Note: Attempt any five questions. All questions carry equal marks. Symbols used have their usual meanings.

X. What is computer Graphics? Write the (a) important applications of Computer Graphics?

(1)

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Define Random and Raster scan?

Explain color display techniques, with diagram.

Differentiate between:

- Image and graphics
- (ii) Video and animation
- 3. What is Frame Buffer? Discuss the role of frame buffer in controlling intensity and color of display devices?
 - Explain the limitation of DDA algorithm for line generation. Expand the abbreviation DDA.

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- What is 2D Transformation? Explain types of 2D transformations. 14
- (a) What is Aliasing? Define Anti-aliasing techniques.
 - What are Bezier curves? State the mathematical expression of Bezier curve, explaining the terms involved.

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б.	What is animation? What are two types	of an-
	imation? Explain both.	14

7. A homogenous co-ordinate point P(3,2,1) is translated in x, y and z directions by-2, -2 and -2 unit respectively followed by successive rotation 60 degree about x-axis. Find the final position of homogenous co-ordinate.

e8. Explain the following:

- (i) Tweaking
- (ii) Morphing
- (iii) Clipping
- (iv) Mid-point circle drawing algorithm

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