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Paper Code : 21321

F-421

B.C.A. (Fifth Semester) Examination, 2018
(New Course)

Paper-BCA-501-N

COMPUTER GRAPHICS AND ANIMATION

Time : 3 Hours]

[Maximum Marks : 70

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

1. (a) What do you understand by term computer graphics ? What is the need of it ?
(b) Explain the basic functionality of Random scan. Display with figure.
2. (a) Explain color display techniques in detail.
(b) Explain bit operations concepts in raster graphics.
3. (a) Draw a line from (0, 0) to (8, 8) using DDA Algorithms.
(b) Explain the basic transformation techniques in detail for 2D.

4. (a) What are the difference between windowing and clipping ?
(b) What do you understand by term segment ? Explain its structure.
5. (a) Explain transformation technique for 3D images.
(b) Write down the algorithm for 3-D volumes spline curves.
6. (a) Explain interactive picture construction techniques in detail.
(b) Explain about interactive input and output devices in detail. mjpruonline.com
7. (a) Explain GKS primitive in detail.
(b) Explain multimedia applications in detail.
8. Explain any *three* terms :
 - (a) Tweaking
 - (b) Morphing
 - (c) RGB colour model
 - (d) Types of animation system.

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(1)

Turn Over