## AM-245

## B.C.A. Part-III (Semester-V) Examination COMPUTER GRAPHICS (A) - 5ST4

| Tin | ne : T      | hree Hours] [Maximum Marks : 6                        | 0       |
|-----|-------------|---|---------|
| 1.  | (a)         | Explain the history of Computer Graphics.             | 6       |
|     | (b)         | Explain technologies related to Computer Graphic      | s.<br>6 |
|     |             | OR  |         |
| 2.  | (a)         | What is Computer Graphics? Explain its component      | s.<br>6 |
|     | (b)         |   | er<br>6 |
| 3.  | (a)         | Explain rotation transformation with suitable example | e.<br>6 |
|     | (b)         | Explain cathode ray tube with suitable diagram.       | 6       |
|     |             | OR  |         |
| 4.  | (a)         | Explain homogeneous co-ordinate system.               | 6       |
|     | <b>(</b> b) | Explain window-to-viewport transformation.            | 6       |
| 5.  | (a)         |   | m<br>6  |

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|     | (b) | Write and explain properties of B-spline.  | 6         |
|-----|-----|--|-----------|
|     |     | OR   |           |
| 6.  | (a) | Explain midpoint subdivision algorithm.  | 6         |
|     | (b) | Explain Parallel Projection.   | 6         |
| 7.  | (a) | Explain morphing and tweening in detail.   | 6         |
|     | (b) | Explain the applications of animation.   | 6         |
|     |     | OR   | 1         |
| 8.  | (a) | Explain how computer graphics works with animati   | ion.<br>4 |
|     | (b) | Explain hardware and software tools in detail.   | 8         |
| 9.  | (a) | Write a program in graphics for translation.   | 8         |
|     | (b) | Write a program in graphics for drawing arc.   | 4         |
|     |     | OR   |           |
| 10. | (a) | Write a program in graphics to draw square us rectangle () method.   | ing<br>6  |
|     | (b) | Write a program in graphics to draw line us line () method which divides the screen in t parts, horizontally and completely. | _         |