

Roll No. ....

Total No. of Questions : 07]

[Total No. of Pages : 02

**BCA (Sem. - 5<sup>th</sup>)**  
**COMPUTER GRAPHICS**  
**SUBJECT CODE : BC - 503 (N2)**  
**Paper ID : [B0221]**

[Note : Please fill subject code and paper ID on OMR]

Time : 03 Hours

Maximum Marks : 60

**Instruction to Candidates:**

- 1) Section - A is **Compulsory**.
- 2) Attempt any **Four** questions from Section - B.

**Section - A****Q1)****(10 × 2 = 20)**

- a) Why a keyboard is called locator device as well as valuator device?
- b) Why mouse is called a hand held device?
- c) Compare impact vs. non impact print technology.
- d) What is the use of CRT?
- e) What are Drum Plotters?
- f) What is the use of World Co-ordinate System?
- g) What are the advantages of digital video?
- h) Describe Random Scan Display.
- i) Define translation.
- j) What is the use of vanishing point.

**Section - B****(4 × 10 = 40)**

- Q2)** Explain the architecture of a Raster Scan Display with help of a diagram.
- Q3)** Discuss the Bresenham's circle rasterizing algorithm.
- Q4)** Discuss various projections of an object in a view plane.

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**Q5)** Compare the working of electrostatic printer and laser printer.

**Q6)** What are the various transformations possible in 2D? Discuss any three of them.

**Q7)** Write a note on :

- (a) Data Gloves.
- (b) Flatbed Scanner.
- (c) Digitizer.
- (d) Line clipping.

