Download all Notes and papers from StudentSwwindharsobjects.com Roll No. Total No. of Questions: 091 [Total No. of Pages: 02 B. Tech. (Sem. - 5<sup>th</sup>) **COMPUTER GRAPHICS SUBJECT CODE: CS-309** <u>Paper ID</u>: [A0468] [Note: Please fill subject code and paper ID on OMR] Time: 03 Hours Maximum Marks: 60 **Instruction to Candidates:** Section - A is Compulsory. Attempt any Four questions from Section - B. 2) 3) Attempt any Two questions from Section - C. Section - A *Q1)* a) What is scan conversion? List the different types of clippings. **b**.) c) What do you understand by the term surface rendering? d) What is Z-Buffer? Define the term rendering? e) What is translation of an object? f) What is a perspective view? g) Define the term rotation in three dimensions. h) i) Define the various I/O devices. <u>j</u>) What do you mean by fractals? M-846[1859] P.T.O.

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$$(4 \times 5 = 20)$$

- Q2) List all the applications of computer graphics.
- Q3) Describe in detail Breshenham's line drawing algorithm.
- Q4) Define the term object precision. How it is different from image precision?
- **Q5)** What are windowing and clipping? Explain Sutherland-Hodgman algorithms for clipping a polygon.
- Q6) What are projections? Explain different types of projections.

 $(2\times10=20)$ 

- Q7) Explain the scan line method for visible surface detection.
- Q8) Explain in detail any of the two Bezier and B-Spline curves.
- **Q9)** What do you mean by raster scan systems? Explain the working of a color CRT monitors.



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