

Seat No.	
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**SE -200**

**Total No. of Pages : 1**

**T.E. (Computer Science & Engineering) (Semester -V) Examination,  
November - 2018  
COMPUTER GRAPHICS  
Sub. Code : 66293**

**Day and Date : Monday, 19- 11 - 2018**

**Total Marks : 50**

**Time : 09.30 a.m. to 11.30 a.m.**

- Instructions :**
- 1) Q.No. 3 and Q.No. 6 are compulsory. Attempt any one from Q. No. 1 and Q. No. 2 and any one from Q.No.4 and 5.
  - 2) Figures to the right indicate full marks.
  - 3) Assume suitable data if necessary.

- Q1) a)** Define parallel and perspective projections. Explain Orthographic projection in detail [6]  
**b)** Explain Run Length Encoding technique. [6]
- Q2) a)** Explain Scan line seed fill algorithm. [6]  
**b)** Explain with the help of transformation matrix the procedure to rotate an object about an axis parallel to coordinate axis [6]
- Q3) a)** Explain Bresenham's line drawing algorithm with suitable example. [7]  
**b)** Explain end point code algorithm for line clipping. [6]
- Q4) a)** Explain the following tests to find the relation between polygon and the window in Warnock algorithm  
i) Infinite line test  
ii) Angle count test [6]  
**b)** Explain basic ray tracing algorithm. [6]
- Q5) a)** Explain parametric representation of cubic spline curve segments. [6]  
**b)** What is warping? Explain feature based image warping. [6]
- Q6) a)** Explain the steps to construct an animation sequence. [7]  
**b)** Explain Phong specular reflection model. [6]

