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M.Tech II Semester Supplementary Examinations January/February 2017

COMPUTER GRAPHICS

(Common to CAD/CAM & PEED)

Time: 3 hours Max. Marks: 60

Answer any FIVE questions All questions carry equal marks

- (a) Explain the working principle of liquid crystal display monitor.
 - (b) Discuss in detail about the various input devices used in feeding data to a computer.
- 2 (a) Write Bresenham algorithm for drawing a line.
 - (b) What are the differences between DDA and Bresenham method of drawing line? Which method is good? Why?
- 3 (a) Explain how to half tone a rectangular region. Where is half tone applicable?
 - (b) Describe about seed filling method to fill inner side of a polygon.
- 4 (a) Describe Cohen Sutherland subdivision method to clip all possible regions.
 - (b) Describe how midpoint subdivision method is used to clip all possible regions.
- 5 (a) Write Hodgeman polygon clipping algorithm. Explain with a simple example.
 - (b) How is a character clipped? Explain with an example.
- 6 Derive a transformation matrix for translation and rotating combinations in the order of translation and rotation.
- 7 (a) Explain the variety of hidden surface removal method in detail.
 - (b) Write Warnock hidden surface removal algorithm. Give an example.
- 8 (a) Describe constant intensity algorithm for polygon rendering.
 - (b) Compare various shading algorithms in terms of accuracy and speed of execution.

