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JAYPEE UNIVERSITY OF INFORMATION TECHNOLOGY, WAKNAGHAT

TEST-1 EXAMINATION- February, 2020

B. Tech VI Semester

COURSE CODE: 11B1WCI611

MAX. MARKS: 15

COURSE NAME: Computer Graphics

COURSE CREDITS: 3

MAX. TIME: One Hour

Note: All questions are compulsory. Carrying of mobile phone during examinations will be treated as case of unfair means.

1. Explain the terms –

- i. Raster Scan Systems
- ii. Random Scan Systems
- iii. Horizontal Retracing
- iv. Vertical Retracing
- v. Refresh Rate.

[1*5 = 5 marks]

2. Derive and explain Bresenham line drawing algorithm for first quadrant. Plot a line by using Bresenham line from (1, 1) to (5, 3). [5 marks]

3. Derive and explain Mid-Point Circle generating algorithm for first quadrant. Plot a circle by using Mid-Point Circle with initial point at (0,10). [5 marks]