

JAYPEE UNIVERSITY OF INFORMATION TECHNOLOGY, WAKNAGHAT

TEST -1 EXAMINATION- FEBRUARY 2019

B.Tech VI Semester

COURSE CODE: 11B1WCI611

MAX. MARKS: 15

COURSE NAME: Computer Graphics

COURSE CREDITS: 04

MAX. TIME: 1 Hrs

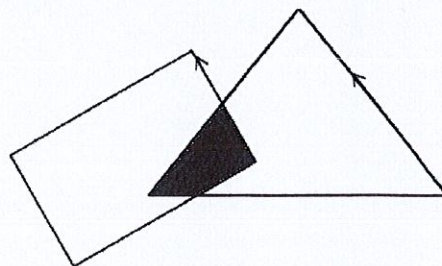
Note: All questions are compulsory. Carrying of mobile phone during examinations will be treated as case of unfair means.

Section – A (2X4 = 8 Marks)

1. Explain the working of thin-film electroluminescent displays with a legible diagram?
2. Elaborate a method you will use to fill areas with irregular shaped boundary?
3. How much time is required for loading a RGB image having 8-bits per channel with a resolution of 1280 X 1024 from the buffer? Transfer rate is 80000 bits per seconds.
4. Define the following terms:
 - a) Shadow mask
 - d) Interlacing

Section – B (1X3 = 3 Marks)

5. Describe the methods used to classify a region of a polygon as interior or exterior? For the following figure how can you classify the intersection (shaded) region as interior and rest as exterior?



Section – C (1X4 = 4 Marks)

6. Use the mid-point method to derive decision parameter for generating a circle on a display device. Using the derived decision parameter rasterize the circle with radius 7 units?