

Roll No.

273-N

B. Sc. (Part III) EXAMINATION, 2019

(New Course)

(Vocational Course)

INFORMATION TECHNOLOGY

Paper First

(Computer Graphics)

Time : Three Hours] [Maximum Marks : 50

Note : Attempt questions from all Sections as directed.

Inst. : The candidates are required to answer only in serial order. If there are many parts of a question, answer them in continuation.

Section—A

(Short Answer Type Questions)

Note : All questions are compulsory. Each question carries 3 marks.

1. (A) Explain the representative uses of computer graphics.
- (B) Define pixel and frame buffer.
- (C) Explain the working of flat panel display.
- (D) What is Polygon ? Explain the different types of polygons.
- (E) Discuss the different text attributes.
- (F) What is Morphing ?

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Section—B

(Long Answer Type Questions)

Note : Attempt any two questions. Each question carries 8 marks.

2. Explain the working of CRT with proper diagram.
3. Explain the ellipse generating algorithm.
4. Describe boundary fill algorithm in detail.
5. Draw a line with end-points (0, 0) and (8, 8) using DDA algorithm. <http://www.csjmuonline.com>

Section—C

(Long Answer Type Questions)

Note : Attempt any two questions. Each question carries 8 marks.

6. Perform a counter clockwise 45° rotation of triangle A (2, 3), B (5, 5) C (4, 3) about a point (1, 1).
7. (What is rotation ?) How rotational matrix for clockwise and counter clockwise can be formulated ?
8. Write short notes on the following :
 - (a) 2D translation
 - (b) 3D effects
 - (c) Cubic curve
 - (d) Video controller
9. What is Animation ? Explain the principle of animation. Also explain its types.

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