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Roll No. .....

Total Questions: 13]

[ Printed Pages : 3

# 18016

B.C.A. IVth Semester Examination, May-2019

# COMPUTER GRAPHICS AND MULTIMEDIA APPLICATION

[BCA-401(New)]

Time: 3 Hrs. ]

[ M.M. : 75

Note: Attempt questions from all Sections as per instructions.

#### Section-A

# (Very Short Answer Type Questions)

- Note: Attempt all the five questions. Each question carries 3 marks. Very short answer is required not exceeding 75 words.
- 1. What is Computer Graphics?
- 2. What is Video Controller ? Explain.

NA-569

(1)

Turn Over

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3. What is Pixel and Frame Buffer?

- 4. What is Flicking?
- 5. What is Multimedia?

#### Section-B

### (Short Answer Type Questions)

Note: Attempt any two questions out of the following three questions. Each question carries 7½ marks.

Short answer is required not exceeding 200 words.

- 6. Explain Raster and Random scan display system.
- 7. Explain the basic rules of animation with example.
- 8. Explain the uses of computer graphics.

#### Section-C

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## (Long Answer Type Questions)

- Note: Attempt any three questions out of the following five questions. Each question carries 15 marks.

  (Not exceeding 400 words).
- Write down and explain the mid-point circle drawing algorithm. Assume 10 cm as the radius and co-ordinate origin as the centre of the circle.

NA-569

(2)

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- 10. What is the basic concept of line drawing? Explain Bresenham's line Algorithm to draw a line between any two end-points.
- 11. Find 3 x 3 homogeneous transformation matrix to transform square ABCD into another square A'B'C'D'. Side of the original square = 2, coordinate of point A(20, 10). Draw a final transformation graph paper.
- Define and compare the Bezier curve and B-spline curve.
- 13. Write short notes on any three of the following :
  - (a) CRT
  - (b) Cohen-Sutherland line clipping algorithm
  - (c) Window and view port
  - (d) Polygon

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NA-569 (3)