Roll No. .....

BCA-IV Sem.

(20518)

# 18016

# B. C. A. Examination, May 2018

## Computer Graphics and Multimedia Application

(BCA-401)

(New)

Time: Three Hours]

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[Maximum Marks :-75

Note: Attempt questions from all Sections as per instructions.

#### Section-A

## (Very Short Answer Questions)

Attempt all the *five* questions. Each question carries 3 marks. Very short answer is required not exceeding 75 words.

3×5=15

1. What is GUI? Explain.

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2. What is Multimedia?

3. Write the uses of Computer Graphics?

Define 'Shear' transformation.

5. What is Refresh Rate?

#### Section-B

### (Short Answer Questions)

Attempt any *two* questions out of the following three questions. Each question carries  $7\frac{1}{2}$  marks. Short answer is required not exceeding 200 words.  $7\frac{1}{2} \times 2=15$ 

 Describe about the most commonly used colour models used in Computer Graphics.

Describe any method for visible surface detection.

8. What is bit plane? How bit planes are used to get different colours?

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### Section-C

### (Detailed Answer Questions)

Attempt any three questions out of the following five questions. Each question carries 15 marks. Answer is required in detail.  $15 \times 3 = 45$ 

- Generate an origin centered circle with radius-2 with 9. eight unique points on the circle.
- Rotate a triangle [(4, 6), (2, 4), (6, 2)] about the 10. vertex (4, 6) by 180° clockwise and find the new vertices.
- 11. Differentiate between the terms multimedia system and multimedia application, with example.
- A triangle ABC is A(0, 0), B(4, 0) and C(0, 4). Find 12. the shearing transformation with a = 2 and b = 3.

13. Write short notes on any three of the following:

- Projection (a)
- Colour frame buffer (b)
- 2-buffer method
- DDA. (d)

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