

## BCA 5th Semester Exam., 2015

## GRAPHICS AND MULTIMEDIA

Time : 3 hours

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Full Marks : 60

## Instructions :

- (i) The marks are indicated in the right-hand margin.  
 (ii) There are **SEVEN** questions in this paper.  
 (iii) Attempt **FIVE** questions in all.  
 (iv) Question No. 1 and 2 are compulsory.

1. Answer any six of the following :  $2 \times 6 = 12$ 

- (a) Graphic programs widely used in the graphic arts profession include —.
- (b) Define b-spline curve.
- (c) What is fixed-point scaling?
- (d) Which of the following programs is not a popular desktop publishing program?  
 (i) Adobe PageMaker  
 (ii) Microsoft Publisher  
 (iii) Lotus AmiPro  
 (iv) QuarkXPress

- (e) What is bitmap?
- (f) Name any four input devices.
- (g) Programs used to create or modify bitmap images are called —.
- (h) Vector images are —. akubihar.com
- (i) What is meant by scan code?
- (j) Write the types of clipping.

2. Answer any three of the following :  $4 \times 3 = 12$ 

- (a) What is multimedia PC?
- (b) What do you understand by the term 'computer graphics'? Write down five application areas of it.
- (c) What is the purpose of computer-aided design and drafting in an interactive graphics?
- (d) Briefly explain the types of coherence.
- (e) Explain hidden surfaces.

Answer any three of the following :  $12 \times 3 = 36$ 

3. Discuss Z-buffer algorithm and back face removal.
4. Discuss three-dimensional clipping.

5. Discuss Cohen-Sutherland algorithm.
6. Discuss DDA algorithm.
7. How does video conferencing relate to hypermedia messaging? What are the implications of building a system where the user starts with video conferencing and switches to integrated stored messaging?

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