

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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