

**July 2014**

Bachelor of Computer Application (BCA) Examination  
VI Semester

**Computer Graphics and Multimedia**

Time : 3 Hours ]

[ Max. Marks : 50

**Note :** Attempt any two parts from each question. All questions carry equal marks.

1. (a) Explain working of Dust and Plasma Panel.  
(b) Explain differences between Raster and Vector Graphics with suitable examples.  
(c) Write applications of computer graphics with its usage in various fields.
2. (a) What do you understand by Graphics Primitives and explain algorithms for circle generations ?  
(b) What is the importance of 2D transformations ? How it differ from 2D multiaspects?  
(c) Give the homogeneous coordinate matrix for reflection, rotation, translation and scaling.
3. (a) Explain Windows and view port transformation.  
(b) How 3D transformation is better than 2D transformation, give your answer with suitable example.  
(c) What do you mean by sigment table ? Explain various data structure used to implement the segment table.
4. (a) What are the different streams of multimedia ? Explain various application of multimedia.  
(b) Write differences among cell animation, morphing and kinematics.  
(c) Write short notes on MCI : Multimedia Control of Interface.
5. (a) How video hardware resolution is important for video compression and Broadcast video?  
(b) Explain any two recording formats with examples.  
(c) Explain any two Hard Copy Devices.

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