R-1892

Third Year B. C. A. (Sem. VI) Examination
February – 2010
Computer Graphics (601)

Time :   Hours]   [Total Marks : **70**

Instructions :

(1)

(2)   All questions are **compulsory**.

(3)   Marks are indicated to the right side of question.

1   Answer followings :   **10**

   (a)   Name any five hard copy graphics devices.

   (b)   What is slope of line?

   (c)   Define major axis of ellipse.

   (d)   What is frame Buffer?

   (e)   What is line caps?

2   (a)   Explain various computer display devices.   **7**

   (b)   Differentiate pixel graphics and vector graphics.   **6**

<div align="center">OR</div>

   (b)   Discuss various applications of computer graphics.'   **6**

   (c)   Which are the possible slope values of line?   **4**

<div align="center">OR</div>

   (c)   Define circle and ellipse. What is difference   **4**
   between them?

3 (a) Explain Vecgen algorithm.   **7**

<div align="center">OR</div>

(a) Discuss Brasenham line drawing algorithm.

(b) Explain Brasenham circle drawing algorithm.   **6**

(c) Which are various Pens and Brushes?   **4**

<div align="center">OR</div>

(c) What is anti-aliasing?

4 (a) Explain methods used to check whether the point   **7**
is inside or outside the polygon.

(b) Explain the Scaling method.   **6**

<div align="center">OR</div>

(b) Discuss Rotation method.

(c) Define windowing. Describe it.   **4**

<div align="center">OR</div>

(c) Explain cliping process.

5 Answer following : (any **three**)   **9**

(a) Simple line cliping

(b) Shearing

(c) Reflection

(d) Translation

(e) Flood fill method.

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