Roll No. ....

Total No. of Questions : 07]   [Total No. of Pages : 02

BCA (Sem. - 5th)
COMPUTER GRAPHICS
SUBJECT CODE : BC-503
Paper ID : [B0221]

[Note: Please fill subject code and paper ID on OMR]

Time : 03 Hours   Maximum Marks : 60

Instruction to Candidates:

   1) Section - A is **Compulsory**.

   2) Attempt any **Four** questions from Section - B.

Section - A

(10 × 2 = 20)

Q1)

   a) What is touch panel and graphic tablet?

   b) Explain the difference between flatbed and drum plotters.

   c) What is random scan? How it is different from raster scan?

   d) Define circle and ellipse.

   e) What do you understand by resolution of a monitor?

   f) Why is Bresenham's algorithm better than DDA?

   g) What is character generation?

   h) What are homogeneous coordinates? Explain their use.

   i) Define shearing and skewness.

   j) What is CRT? Explain its components with neat and clean diagram.

R-189   *P.T.O.*

Section - B

(4 × 10 = 40)

Q2) What do you understand by Computer Graphics? What are its applications?

Q3) Explain the use and benefits of monitor displays. Which are two major monitor types? Explain briefly.

Q4) (a) What is transformation? Explain various types of transformation?

(b) Perform a 45 degree rotation of a triangle A(0, 0), B(l, 1), C(5, 2)

(i) About the origin

(ii) About point P(–1, –1)

Q5) What is line? Give its attributes? Write an algorithm for line drawing.

Q6) What is projection? Explain the difference between parallel and prospective projection.

Q7) (a) What is clipping? Explain.

(b) What is difference between 2D and 3D graphics? Explain.

▢▢▢

R-189   2

a2zpapers.com

www.a2zpapers.com
We provide GNDU question papers, PTU question papers, PU question papers, LPU question papers, GNA university