

ROLL NO :

--	--	--	--	--	--	--	--	--	--	--	--

Total number of pages: (01)

Total number of questions: 07

B.C.A./ 6th Sem

Computer Graphics

Subject Code: BSBC602 (RB/RP)

Paper ID: M118

(2011 onwards)

Max Marks: 60

Time allowed: 3 Hrs

Important Instructions:

- All questions are compulsory

PART A (10x 2marks)

- Q. 1. Answer in brief:
- What is computer graphics?
 - Define resolution.
 - What do you mean by composite transformation?
 - Differentiate random scan and raster scan.
 - What is frame buffer?
 - Why is Bresenham algorithm better than DDA?
 - What is frame buffer?
 - Define refresh rate.
 - What is projection? Explain its types.
 - What are the components of the CRT?

PART B (5x8marks)

- Q. 2. List various output devices. Explain working of any one. CO1
OR
Explain the use of computer graphics different applications. CO1
- Q. 3. Write DDA line drawing algorithm and explain it with suitable example. CO2
OR
How is a circle plotted with the help of Bresenham method? Explain. CO2
- Q. 4. Write short notes on the following: CO3
(a) Shadow mask method (b) Scan Conversion process.
OR CO3
Perform a 60 degree rotation of a triangle A(0, 0), B(1, 1), C(5,2)
(i) About the origin (ii) About point P(-1, -1).
- Q. 5. Explain 2-D scaling using homogeneous coordinates. CO4
OR
Explain Sutherland Hodgeman for polygon clipping with example. CO4
- Q. 6. Explain 3-D viewing transformation. CO5
OR
Explain perspective projections in detail. CO5