

Roll No.

Total No. of Questions : 09]

[Total No. of Pages : 02

MCA (Sem. – 5th)
COMPUTER GRAPHICS
SUBJECT CODE : MCA - 501
Paper ID : [B0122]

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

Time : 03 Hours

Maximum Marks : 60

Instruction to Candidates:

- 1) Attempt any one question from Sections A , B, C & D.
- 2) Section - E is **Compulsory**.
- 3) Use of Non-programmable **Scientific Calculator** is allowed.

Section – A

(1 × 10 = 10)

Q1) What are 3D viewing devices? Explain in detail?

Q2) Explain the following:

- a) Flatbed plotters and Drum Plotters
- b) CRT monitors

Section – B

(1 × 10 = 10)

by homogeneous coordinate system in 2D graphics?

Q4) Define the following :

- a) Polygon Clipping
- b) Area filling techniques

(1 × 10 = 10)

Q5) What is geometric transformation? Explain the different terminologies used in this process?

Q6) What is 2D viewing? Explain the implementation of other geometric shapes?

Section – D

(1 × 10 = 10)

Q7) Explain in detail the process of sub division in computer graphics?

Q8) Explain the constant intensity methods and diffuse reflection?

Section - E

Q9)

(10 × 2 = 20)

- a) What is direct view storage tube?
- b) Explain the term: graphic tablets?
- c) What is phong shading?
- d) Explain the process of cartesian in 2D transformation?
- e) What is light intensity?
- f) What is difference between viewing in 2D and 3D transformation?
- g) Explain voice system process in graphics?
- h) What are the functional characteristics of graphics system?
- i) What is scanner?
- j) Discuss the overview concept of character generation.

