Student	Regd.	No

C

DCAP504 Computer Graphics

Time Allowed: 3 hours Max. Marks: 80

- 1. This paper contains 10 questions divided in two parts on two pages.
- 2. Part A is compulsory.
- 3. In Part B (Questions 2 to 10), attempt any 6 questions out of 9. Attempt all parts of the questions chosen.
- 4. The marks assigned to each question are shown at the end of each question in square brackets.
- 5. Answer all questions in serial order.

PART-A

Q1 a) List the operating characteristics for the display technologies: raster refresh systems, vector refresh systems and plasma panels. [2] b) What is the most common type of monitor employing a CRT? [2] c) Write down function of shadow mask. [2] d) What are composite transformations? [2] e) What does scaling mean? Give an example [2] f) What is the difference between perspective projection and parallel projection? [2] g) Distinguish between window port and viewport. In 2D clipping how are lines grouped into visible, invisible and partially visible categories. [2] h) What do you understand by Interpolative shading Methods? [2] i) Write down the rotation matrix in 3D? [2] j) Explain the following: I) Segment attributes. II) Segment files. [2]

PART-B

Q2 How persistence is different from resolution? Write an algorithm for scan line method. [10]

Q3. Write down Implementation of 2D Transformations	[10]
Q4.Implement the cohen-sutherland line clipping algorithm	[10]
Q5. Write down Implementation of Ellipse drawing	[10]
Q6. A computer animation generally refers to any time sequence of visual chin a scene. Write down the steps for designing animation sequence.	nanges [10]
Q7.Write the various applications of Computer Graphics.	[10]
Q8. Write down Implementation of Boundary Fill & Flood Fill Algorithms	[10]
Q9 Write a note on area subdivision method?	[10]
Q10. Define Z buffer method and painters algorithm.	[10]

-- End of Question Paper --