Mid-West University Examinations Management Office Final Examinations -2081

Level: Bachelor /B.Sc. CSIT/ Semester: IV

F.M: 60

Time: 3hrs.

P.M: 30

Subject: Computer Graphics (COM444)

Candidates are required to give their answers in their own words as far as practicable. Figures in the margins indicate marks.

Group A

Very Short Answer Questions (Attempt ALL)

 $[8 \times 2 = 16]$

- 1. Discuss Graphical Languages.
- 2. Write short notes on Joy Stick and Graphics Tablet.
- 3. How can you define Aspect Ratio?
- 4. Write any two advantages of recent transform.
- 5. Define Graphics File Format. For what purpose is JPEG used?
- 6. What do you mean by Differential Scaling?
- 7. Define Visible Surface Detection.
- 8. Write any four advantages of Computer Graphics?

Group B

Short Answer Questions (Attempt ANY FIVE)

 $[5 \times 4 = 20]$

- 9. Explain Bresenham's Line Drawing Algorithm.
- 10. What do you mean by two-dimensional transformation? Explain 3D Translation.
- 11. Describe Polygon Meshes. illustrate its advantages.

- 12. Translate the given points (2,5) by the translating value (3,3).
- 13. Explain Gouraud Shading.
- 14. Explain Cathode Ray Tube (CRT) with appropriate diagram.

Group C

Long Answer Questions (Attempt ANY THREE) $[3 \times 8 = 24]$

- 15. Explain Digital Differential Analyzer Line Drawing Algorithm (DDA). Digitize the line with endpoints (1,5), and (7,2).
- 16. Explain Plane Equation Method in Visible Surface Detection.
- 17. Describe Raster Scan and Vector Scan Display with appropriate Diagram.
- 18. Explain project planning and developing a project in computer graphics.

THE END