C. ABDUL HAKEEM COLLEGE (AUTONOMOUS),
MELVISHARAM - 632 509.
SEMESTER EXAMINATIONS, NOVEMBER - 2018

B.C.A., **SEMESTER V**

U15ECA501 – COMPUTER GRAPHICS (ELECTIVE - I)

Time: Three Hours Maximum: 75 Marks

SECTION - A (10 X 2 = 20 Marks)

Answer **ALL** Questions.

1. Define segments.
2. What is PHIGS?
3. What is meant by scaling?
4. What is the purpose of video lookup table?
5. Define clipping.
6. Define pixel.
7. What is the use of parallel projection?
8. Define depth cueing.
9. Define projection plane.
10. List out the difference between parallel projection and perspective projection.

SECTION - B (5 X 5 = 25 Marks)

Answer **ALL** Questions.

11. a) Explain raster scan system.

(Or)

b) Discuss about the types of printers.

12. a) Write a note on the character attributes.

(Or)

b) Explain the general scaling directions.

13. a) Write any one of clipping algorithm.

(Or)

b) Explain the rubber band methods and gravity field.

14. a) Write notes on 3D transformation functions.

(Or)

b) Write notes on the co-ordinate transformation.

15. a) Why hidden line removal is more important?

(Or)

b) Discuss about the back face removal.

SECTION - C (3 X 10 = 30 Marks)

Answer **ANY THREE** Questions.

16. Explain Bresenham's line algorithms.
17. Explain the basic transformation techniques.
18. Discuss about the logical classification of input devices.
19. Write notes on 3D display methods.
20. Briefly explain about the projections with example.

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