



## C. ABDUL HAKEEM COLLEGE (AUTONOMOUS)

(Affiliated to Thiruvalluvar University)

(Re – Accredited by NAAC)

Hakeem Nagar, Melvisharam-632 509, Ranipet District.

### MODEL SEMESTER EXAMINATIONS-MARCH 2020 CONTINUOUS INTERNAL ASSESSMENT TEST: II

**Class:** II B.C.A.[A & B]

**Name of the Subject:** Computer Graphics [Major-2]

**Subject Code:** U18MCA402

**Maximum:** 75 Marks

**Duration of Exam:** 3 Hours

**Date & Session:** 28.03.2020 & A.N.

**Semester:** IV

**Batch:** 2018-2021

#### SECTION-A [10 X 2 = 20 Marks]

**Answer ALL the Questions. Each Question carries equal Marks.**

1. What is computer graphics?
2. Write the varieties of display layout.
3. What is clipping line?
4. Define dot product with example.
5. Rotate the point  $P=(3,1,4)$  through 30 degree about the y-axis .
6. Define clipping.
7. Write the use of parallel projection.
8. Define depth cueing.
9. What is perspective projection?
10. Define projection plane.

#### SECTION-B [5 X 5 = 25 Marks]

**Answer ALL the Questions. Each Question carries equal Marks.**

11. (a) Explain the types of segments..

**OR**

- (b) Explain the raster scan system.

12. (a) Explain character attributes.

**OR**

- (b) Describe the general scaling directions.

13. (a) Briefly explain any one clipping algorithm.

**OR**

- (b) Explain the rubber band method and gravity field.

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

**OR**

- (b) Explain how to create a prism.

15. (a) Write the importance of hidden line removal.

**OR**

(b) Write about back face removal.

**SECTION-C [3 X 10 = 30 Marks]**

**Answer Any THREE Questions. Each Question carries equal Marks.**

16. Explain the Bresenham's line drawing algorithm.
17. Explain the basic transformation techniques.
18. Discuss about the 3D display methods.
19. Explain the logical classification of input devices.
20. Briefly explain about the projection with example.

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