



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.[C]

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

Subject Code: U18MCA402

Maximum: 75 Marks

Duration of Exam: 3 Hours

Date & Session: 28.03.2020 & F.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 paint system?
2. Define event driven programming.
3. What is world window?
4. Write the two operations of vectors.
5. What is object transformation?
6. What is CAD?
7. What do you mean by polygonal mesh?
8. Define polygonalization.
9. Define flat shading.
10. What is black body?

SECTION-B [5 X 5 = 25 Marks]

Answer ALL the Questions. Each Question carries equal Marks.

11. (a) Explain the representation of shades of gray and color in raster images.

OR

- (b) Explain the data types in OpenGL.

12. (a) Explain circles and arcs.

OR

- (b) Write the Cyrus Beck clipping algorithm.

13. (a) Mention the properties of 3D affine transformations.

OR

- (b) What are the elementary shapes in OpenGL? Explain.

14. (a) Explain the properties of meshes.

OR

- (b) Explain three generic shapes in detail.

15. (a) Explain the steps in removing hidden surfaces.

OR

- (b) Write about perspective projection of 3D objects.

SECTION-C [3 X 10 = 30 Marks]

Answer Any THREE Questions. Each Question carries equal Marks.

16. Explain the types of physical input devices in computer graphics.
17. Explain the Cohen Sutherland line clipping algorithm.
18. Discuss about the 3D display methods.
19. Write a detailed note on polyhedra.
20. Discuss on taxonomy of projections.
