Reg. No. : ....

Name : ....

III Semester M.C.A. Degree (C.B.S.S. – Reg./Supple./Imp.) Examination, November 2024
(2021 Admission Onwards)
MCA3C03 : COMPUTER GRAPHICS WITH OPEN GL

Time : 3 Hours

Max. Marks : 60

PART – A

Note : Answer **all** questions. **Each** question carries 2 marks.

1.	Explain about video display device.	2
2.	Explain about any two input device.	2
3.	Write a note on Gray scale.	2
4.	Explain about antialiasing.	2
5.	Explain about 2D transformation.	2
6.	Write a short note on 3D scaling.	2
7.	Explain about vanishing point.	2
8.	Write a note on polygon clipping.	2
9.	Write a note on quadric surfaces.	2
10.	Explain about diffuse reflection.	2

(10×2=20)

PART – B

Answer **all** questions. **Each** question carries **eight** marks.

11. a) Explain in detail about midpoint circle algorithm. 8

OR

b) Explain in detail about DDA line drawing algorithm. 8

P.T.O.

12. a) Explain in detail about 2D viewing pipeline.   8

             OR

    b) Explain about Cohen-Sutherland line clipping.   8

13. a) Briefly explain how to represent matrix and homogeneous coordinates.   8

             OR

    b) Explain about reflection and shear.   8

14. a) Explain about 3D viewing pipeline.   8

             OR

    b) Explain in detail about oblique parallel projection.   8

15. a) Explain in detail about 3D object representation.   8

             OR

    b) Explain in detail about basic illumination models.   8

(5×8=40)