

Government College of Engineering, Aurangabad

(An Autonomous Institute of Government of Maharashtra)

FYMCA Examination

End Semester Examination May 2012-06-23

MCA111:Computer Graphics

Time: Three hours

Max Marks: 60

"Verify the course code & check whether you have got the correct question paper"

N.B.:-

1. All questions are compulsory
 2. Figures to the right indicate full marks
 3. Assume suitable data if necessary and state it clearly
 4. Use of non-programmable calculator is allowed
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Q.1] Attempt any Two

[Marks 12]

- 1) Explain Any two Input Devices working in details
- 2) List and explain various application of computer graphics
- 3) With a neat labeled diagram explain the mechanism and working of Cathode-Ray-Tube

Q.2] Attempt any Two

[Marks 12]

- 1) Explain the different any two character generation methods in details
- 2) Write down algorithm and explain the ellipse generation algorithm
- 3) Explain in detail Splines curves

Q.3] Attempt any Two

[Marks 12]

- 1) With suitable example explain the basic idea of rotation about arbitrary point transformation
- 2) Explain the Mid Point Sub Division line clipping algorithm
- 3) Write a short note on all types of reflection in 2D transformation

Q.4] Attempt any Two

[Marks 12]

- 1) Explain the Virtual reality environment
- 2) Discuss the animation sequences and animation functions in details
- 3) Translate and scale the translated polygon which has the coordinates A(2,5), B(7,10), C(10,2) initially. The transformation and scaling factors are given as follows $s_x=2$, $s_y=2$, and $t_x=3$ units, $t_y=4$ units

Q.5] Attempt any Two

[Marks 12]

- 1) Differentiate between Parallel Projection and Perspective projection
- 2) Write a short note on classification of fractals
- 3) List the properties of Beizer curves.

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