Code No: C6304

R09

JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY HYDERABAD
M.Tech I Semester Examinations March/April-2011
ADVANCED COMPUTER GRAPHICS
(IMAGE PROCESSING)

Time: 3hours   **Max.Marks:60**

Answer any five questions
All questions carry equal marks
- - -

1. a) Differentiate Polygon based representation and Edge based representation.
   b) Explain various aspects of Reflection.   [12]

2.   Write an algorithm for Anti aliased Soft Shadows.   [12]

3.   Explain different View-Dependent Mapping Techniques.   [12]

4.   Explain the following:
        a) Ray Coherence.
        b) Spatial Coherence.
        c) Backwards Ray tracing.   [12]

5.   Explain Cone tracing with relevant examples.   [12]

6.   What is Global Illumination? Give a rendering equation for global illumination.
                                                                                [12]

7.   Illustrate goals of Render Man shading language.   [12]

8. a) Differentiate Forward kinematics and Inverse kinematics in computer animation.
   b) Explain Deformation of B-Spline patch representation.   [12]

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