AMT-502/CGL/5th Sem/2017/M

CG LIGHTING

Full Marks - 70

Pass Marks - 28

Time - Three hours

The figures in the margin indicate full marks for the questions.

Answer any seven questions.

Illustrate your answers with suitable sketches and examples wherever necessary.

- 1. What do you understand by 'light'? Explain what are shadows. Give diagrams to support your answer. 4+4+2=10
- 2. What are direct light and indirect light? Explain with suitable diagrams and examples. 5+5=10
- 3. Describe Directional Light and Volume Light with suitable diagrams and examples. 5+5=10
- 4. (a) What are artifacts? How can you get rid of them?
 - (b) What is the Penumbra Angle? Draw diagrams to support your answer.

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- 5. Describe the 'Barn Door' attribute of a spot light with suitable diagrams.
- 6. Explain the terms "Rendering in Layers" and "Rendering in Passes".
- 7. Describe the following render passes and explain why they are required: 5+5=10
 - (a) RGB Matte Pass
 - (b) Z-Depth Pass.
- 8. What are the key inputs you look for before lighting a 3D scene?
- 9. Write short notes on any *five* of the following: $5\times 2=10$
 - (i) Negative intensity
 - (ii) Point light
 - (iii) Light decay
 - (iv) Self-shadow
 - (v) Light fog
 - (vi) Photons
 - (vii) Caustics.