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MCQ 1:

The Phong reflection model simplifies light-matter interactions essentially into 4 vectors and a number of constants. Which piece of the Phong model is responsible for giving spheres their bright white spots?

Options:

a) Ambient

b) Specular

c) Ambient and Diffuse

d) Diffuse

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Correct Option: b) Specular

MCQ 2:

If we want any object to glow, we should use _____ lights.

Options:

a) Diffuse

b) Ambient

c) Emissive

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d) Specular

Correct Option: c) Emissive

MCQ 3:

This is a simple example of line clipping: the display window is the canvas and also the default ----------, thus all line segments inside the canvas are drawn.

Options:

a) Clipping Circle

b) Clipping Polygon

c) Clipping Rectangle

d) Clipping Angle

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Correct Option: c) Clipping Rectangle

MCQ 4:

Consider the following problem from lighting: A point (P1) is at (0, 0, 0) with normal equal to 1/(2*sqrt(2))*(sqrt(2), 2, sqrt(2)). The light is located at (0, 1, 0). The viewer is located at (1, 1, 1). The specular and diffuse coefficients for the light are both (1, 1, 1), with the ambient portion as (.2, .2, .2). Complete the reflection vector.

Options:

a) 1

b) -1

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c) 0

Correct Option: c) 0

MCQ 5:

The physical range of colours a device can display is called _____ of the device.

Options:

a) Sharpness

b) Colouring

c) Gamut

d) Colouring with Sharpness

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Correct Option: c) Gamut

MCQ 6:

Light is mostly reflected in the case of _____ surfaces.

Options:

a) Nonconductor (like dielectrics)

b) Conductor (like metals)

c) Both conductor and nonconductor

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Correct Option: a) Nonconductor (like dielectrics)

MCQ 7:

There are not many different ways of representing the intensity of a particular colour element.

Options:

a) True

b) False

Correct Option: b) False

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