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Daffodil International University
Department of CSE
Quiz - 02
Course Code: CSE411 (Computer Graphics)

Name : ID : Sec :

Time: 50 Minutes **Marks: 15**

Answer ALL Questions

Question 1:

A design company creates digital images using computer software and views them on high-quality display monitors. However, when these images are sent for printing, the final printed output appears less vibrant and does not exactly match the original digital version. The design team realizes that the issue is related to differences in color representation between display systems and printing systems.

- Analyze this situation and explain the differences between additive and subtractive color models and how they affect color reproduction. [5]

Question 2:

A game development team is creating a detailed digital forest environment. One developer is assigned the task of animating a flowing river and a campfire efficiently without manually drawing each frame. Another developer is tasked with creating a group of birds that fly through the forest, avoid trees, and react on their own to the environment based on a set of goals.

- **Explain** the underlying principles and working mechanisms of these two techniques, and discuss why they are efficient for their respective tasks. [5]

Question 3:

A student is assigned to create a short animation of a car moving on a road for a magazine advertisement. Before starting, he carefully plans the animation sequence step by step. Since the final output will be printed in a magazine that only supports black ink.

a) List and **Explain** the steps for designing an animation sequence? [2.5]

b) Identify which technique is being used for printing? [2.5]