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Question Paper Code: 47202

B.E./B.Tech. DEGREE EXAMINATION, AUGUST 2021

Seventh Semester

Computer Science and Engineering

14UCS702 - INTERACTIVE COMPUTER GRAPHICS

(Regulation 2014)

Duration: 1:45 hour

Maximum: 50 Marks

PART A - (10 x 2 = 20 Marks)

(Answer any ten of the following questions)

1. Write in detail about Raster Scan System..
2. Define – View Up Vector.
3. Differentiate interpolation and approximation splines.
4. What is environmental mapping?
5. What are the features of PNG files?
6. What is emissive display? Give examples.
7. Define – View Up Vector.
8. Differentiate interpolation and approximation splines.
9. Mention the various characteristics of a light
10. What are the features of PNG files?
11. Slope-intercept line equation $y = mx + b$ Given two end points (23, 41), (125, 96), how to compute m and b?
12. Define – View Up Vector.
13. Write the need of using near plane and far plane?
14. Write the procedure to convert between HSV and RGB color model.
15. What is meant by temporal aliasing?

PART – B (3 x 10= 30 Marks)

(Answer any three of the following questions)

16. Explain the architecture of a raster-graphics system with a Display processor. (10)
17. Describe the two dimensional basic transformations (10)
18. What are quadric surfaces? Explain. . (10)
19. Discuss the HLS and RGB color models in detail (10)
20. Explain the various common authoring metaphors (10)