

Reg. No. :

--	--	--	--	--	--	--	--	--	--

**Question Paper Code: 55083**

B.E. / B.Tech. DEGREE EXAMINATION, NOV 2017

Fifth Semester

Information Technology

15UIT503 - GRAPHICS AND MULTIMEDIA

(Regulation 2015)

Duration: Three hours

Maximum: 100 Marks

Answer ALL Questions

PART A - (5 x 1 = 5 Marks)

1. What is the function of line attribute?  
(a) Setlineattr(lt)    (b) setLinetype(lt)    (c) setlinetype()    (d) setline(lt)
2. Which transformation alters the size of object?  
(a) Shear    (b) Translation    (c) Scaling    (d) Rotation
3. Intermediate frames between the key frames:  
(a) In-between    (b) Key frame    (c) Story Board    (d) Definition
4. A video frames grabber is used to capture, manipulate,  
(a) Editing    (b) Enhance    (c) Convert    (d) Detection
5. Which is the LAN technology?  
(a) CCITT    (b) Bridges    (c) Smart hubs    (d) Ethernet

PART - B (5 x 3 = 15 Marks)

6. Short notes on 2D Geometric transformation.
7. Brief about polygon surfaces.
8. What are the types of Animation techniques?

9. Brief about input lookup table.
10. List the types of Database Replication.

PART - C (5 x 16 = 80 Marks)

11. (a) Explain Bresenham's Line Drawing Algorithm for the center: (20, 10) and (30, 18). (16)

Or

- (b) (i) Explain Pivot Point Rotation. (8)
- (ii) Explain Cohen-Sutherland Algorithm. Illustrate with example. (8)

12. (a) Discuss about polygons and curved line representation. (16)

Or

- (b) Discuss about three dimensional geometric transformations. (16)

13. (a) Explain the color model in detail. (16)

Or

- (b) Explain the color model in detail: (i) Fractal dimension (ii) Julia sets. (16)

14. (a) Explain about the MIDI specification in details. (16)

Or

- (b) Explain about JPEG compression. (16)

15. (a) What is the RAID and explain it with illustrative example. (16)

Or

- (b) Explain the principle of video conferencing in detail. (16)