

LOYOLA COLLEGE (AUTONOMOUS), CHENNAI – 600 034



B.Sc. DEGREE EXAMINATION – COMPUTER SCIENCE

FIFTH SEMESTER – NOVEMBER 2019

17UCS5ES04 – COMPUTER GRAPHICS

Date: 06-11-2019

Dept. No.

Max. : 100 Marks

Time: 09:00-12:00

PART A

Answer the following

10x2=20 marks

1. What is frame buffer?
2. List out the basic geometric transformations.
3. Write the difference between window and viewport.
4. Write note on Normalized device coordinates.
5. What is the use of Document Imaging Application?
6. Define Image Annotation.
7. What is mean by Animation?
8. Write any two animation file formats.
9. Define Action Script.
10. What is timeline in Flash?

PART B

Answer the following

5x8=40 marks

- 11 a. Differentiate Random scan and raster scan display techniques.
OR
b. Explain the working of DDA line drawing algorithm with procedure.
- 12 a. Write short notes on parallel and perspective projections.
OR
b. Explain any two color models in detail.
13. a. List the basic objects of multimedia systems.
OR
b. Explain briefly about Multimedia Databases.
14. a. What are the types of animations? Explain with example.
OR
b. Write short note on the uses of animations.
15. a. Explain any four Flash Tools in detail.
OR
b. How will you draw simple shapes and objects in Flash?

PART C

Answer any two Questions

2x20=40 marks

16. a. Explain the attributes of output primitives in detail.
b. Write short notes on the following:
- i) 3D Rotation

 - ii) Three Dimensional Viewing functions.
17. a. Explain the following:
- i) Principles of Animation.
 - ii) Animation softwares.
- b. Explain multimedia system architecture with neat diagram.
18. a. Explain Tween Based Animations in Flash with example.
- b. Explain the following 2D transformations and give their matrix representations.
- i) Translation
 - ii) Rotation
 - iii) Scaling

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