

S.No. 5193

RCCS 10 CA 7

(For candidates admitted from 2010 to 2015 batch)

B.C.A. DEGREE EXAMINATION, APRIL 2022.

Part III — Computer Applications — Major

COMPUTER GRAPHICS AND MULTIMEDIA

Time : Three hours

Maximum : 75 marks

SECTION A — (10 × 2 = 20)

Answer ALL questions.

1. Define Random scan displays.
2. What is Aspect ratio?
3. What is an output primitive?
4. What is Line Generation?
5. What is Transformation?
6. Define clipping.
7. List down elements of multimedia.

8. What is Solaris Live?
9. What are multimedia development tools?
10. What is image compression?

SECTION B — ($5 \times 5 = 25$)

Answer ALL questions, choosing either (a) or (b).

11. (a) Explain Raster Scan Display.
Or
(b) Explain Flat Panel Display.
12. (a) Discuss how to load the frame buffer.
Or
(b) Explain Boundary Fill Algorithm.
13. (a) Write short notes on Matrix Representation.
Or
(b) Summarize types of lines in clipping operation.
14. (a) Explain the problems with multimedia.
Or
(b) Discuss about elements of multimedia.

15. (a) List and explain capabilities possessed by multimedia authoring tools.
Or
(b) Explain Image compression in multimedia.

SECTION C — ($3 \times 10 = 30$)

Answer any THREE questions.

16. Explain briefly about display processors.
17. Explain DDA algorithm with suitable illustrations.
18. Discuss the basic transformations in 2D geometric transformations with its types.
19. Explain briefly about different multimedia Hardware with its features.
20. Explain the following
 - (a) Audio Compression
 - (b) Audio Standards.