20U431 (Pages: 2) Name: .....

Reg.No: .....

FOURTH SEMESTER B.Sc. DEGREE EXAMINATION, APRIL 2022

(CBCSS - UG)

(Regular/Supplementary/Improvement)

CC19U BCA4 C08 - COMPUTER GRAPHICS

(Computer Science - Complementary Course)

(2019 Admission onwards)

Time : 2.00 Hours Maximum : 60 Marks

Credit : 3

Part A (Short answer questions)

Answer ***all*** questions. Each question carries 2 marks.

1. Define DVST.
2. Define raster scan display.
3. Define refresh rate.
4. List types of video display devices.
5. Define Shadow mask method.
6. List steps when d<0 in bresenham's circle algorithm.
7. List two approaches of polygon filling.
8. Write the general translation equation.
9. Write the general equation on reflection on X-axis.
10. List properties of light.
11. Explain any two features of Gimp.
12. List transform tool in GIMP.

(Ceiling: 20 Marks)

Part B (Short essay questions - Paragraph)

Answer ***all*** questions. Each question carries 5 marks.

13. Explain Visualisation,Image Processing.
14. Explain types of flat panel display.

15. Compare and contrast LCD and LED.

16. Briefly explain window to viewport transformation.

17. Briefly explain Line Clipping algorithm.

18. Briefly explain Sutherland - Hodgeman Polygon Clipping algorithm.

19. Explain YIQ model.

(Ceiling: 30 Marks)

Part C (Essay questions)

Answer any ***one*** question. The question carries 10 marks.

20. Using DDA algorithm, draw a line from (2, 4) to (6, 18). Explain in detail with necessary steps.

21. Write row major,column major, matrix equation of Reflection, Shear.

(1 × 10 = 10 Marks)

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