Roll No. Total No. of Pages: 02

Total No. of Questions: 09

B.Tech. (CSE) (Sem.-5)
COMPUTER GRAPHICS
Subject Code: BTCS-515-18

M.Code: 78325

Date of Examination: 10-01-2023

Time: 3 Hrs. Max. Marks: 60

INSTRUCTIONS TO CANDIDATES:

- SECTION-A is COMPULSORY consisting of TEN questions carrying TWO marks each.
- 2. SECTION-B contains FIVE questions carrying FIVE marks each and students have to attempt any FOUR questions.
- 3. SECTION-C contains THREE questions carrying TEN marks each and students have to attempt any TWO questions.

SECTION-A

1. Write briefly:

- a) List common graphic input and output devices.
- b) What is Random Scan system?
- c) Discuss Ellipse generating algorithm.
- d) What is the role of scaling?
- e) Discuss boundary filling algorithm.
- f) Define composite transformations.
- g) Differentiate between HLS and HSV color models.
- h) Write properties of light.
- i) What is Rendering?
- j) Short note on Phong shading.

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SECTION-B

- 2. Explain the viewing line clipping and text clipping.
- 3. Explain Translation and Rotation in three dimensional transformation.
- 4. What do you mean by color selection? Also write its applications.
- 5. Explain Matrix representation for 2D Transformations with suitable example.
- 6. Write about general Computer Animation Functions.

SECTION-C

- 7. Explain Bresenham Circle Algorithm.
- 8. a) Give details of Plane projections and its types,
 - b) Explain Depth sort algorithm.
- 9. Write short note on the following:
 - a) Color CRT Monitors
 - b) CMY color model.

NOTE: Disclosure of Identity by writing Mobile No. or Making of passing request on any page of Answer Sheet will lead to UMC against the Student.

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