

Subject Code:- 

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| B | C | A | 3 | 0 | 3 |  |  |  |  |
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Subject:- 

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| Computer Graphics |
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Roll No:- 

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**TECNIA INSTITUTE OF ADVANCED STUDIES****BCA****Class Test (2025-2026)****Shift – M & E****Sem: 5<sup>th</sup>****Set - 1**Date: 

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Time: -1:00 Hour

Max. Marks: 30

**General Instructions:**

- All Questions are compulsory. Answers should be brief and to the point.
- It comprises three sections, A, B, and C. you are to attempt all the sections.
- **Section A** – Question No -1 is Very Short Answers type carrying 2 marks each. You are required to answer ALL.
- **Section B**- Question No-3 is Short Answers type question carrying 5 marks each. You are required to attempt any TWO out of THREE questions given.
- **Section C**- Question No -4 is Long Answer type question carrying 10 marks each. You need to attempt any one.
- Students are instructed to cross the blank sheets before handing over the answer sheet to the invigilator.
- No sheet should be left blank. Any written material after a blank sheet will not be evaluated /checked.

|                   |   | CO  | BT       | M                |
|-------------------|---|-----|----------|------------------|
| <b>SECTION –A</b> |   |     |          | <b>(10)</b>      |
| <b>1.</b>         | <b>Attempt All of the following.</b>                              |     |          | <b>(5*2=10)</b>  |
| a.                | Define Computer Graphics and its types?                           | CO1 | L1       |                  |
| b.                | What is Aspect ratio?   | CO1 | L1       |                  |
| c.                | Define pixel?   | CO2 | L1,L2    |                  |
| d.                | Define View-port?   | CO1 | L1,L2    |                  |
| e.                | What is aliasing?   | CO2 | L1,L2    |                  |
| <b>SECTION –B</b> |   |     |          |                  |
| <b>2.</b>         | <b>Answer any <u>Two</u> of the following.</b>                    |     |          | <b>(2*5=10)</b>  |
| a.                | Differentiate between Bitmap Scan and Vector Scan?                | CO3 | L2,L3    |                  |
| b.                | Draw and explain CRT?   | CO3 | L1,L2    |                  |
| c.                | Explain the working of 2D translation with derivation?            | CO1 | L1,L2,L3 |                  |
| <b>SECTION –C</b> |   |     |          |                  |
| <b>3.</b>         | <b>Answer any <u>One</u> of the following.</b>                    |     |          | <b>(1*10=10)</b> |
| a.                | Write an algorithm for D.D.A's Line draw with explanation?        | CO1 | L1,L2,L3 |                  |
| b.                | Write an algorithm for Cyrus Beck line clipping with explanation? | CO1 | L1,L2,L3 |                  |