**M S RAMAIAH INSTITUTE OF TECHNOLOGY**

(Autonomous Institute, affiliated to VTU)

**DEPARTMENT OF INFORMATION SCIENCE & ENGINEERING**

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| **Term:** | 23rd Jan 2017 to 13th may 2017 | **Course Code:** | IS62C5 |
| **Course:** | Computer Graphics | **Semester:** | VI – A, B & C |
| **CIE:** | Test – I | **Max Marks:** | 30 |
| **Date:** | 1st march , 2017 | **Time:** | 9:30 – 10:30 |

**Portions for Test:** Lecture Nos. from 1 to 18 as per lesson plan. **Instructions to Candidates:**

Answer any **TWO** full questions. **Note:** Mobiles and Programmable Calculators are strictly prohibited.

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| **Sl. #** | **Question** | **Marks** | **Bloom’s Level #** | **COs** |
| 1 a) | How Computer Graphics system works? , explain the conceptual model of with the help of neat diagram. | 10 | R | CO1 |
| 1 b) | Write a program to draw line / circle using polynomial / trigonometric method. | 5 | A | CO2 |
| 2 a) | With the help of neat diagram explain the working principle of Display device ( CRT). | 10 | R | CO1 |
| 2 b) | Write the matrix representation required for the following transformation w.r.t origin as well as w.r.t arbitrary point.  1) Translation, 2) Rotation 3) scaling | 5 | U | CO2 |
| 3 a) | Write a Symmetrical DDA algorithm to draw a line, considering all cases like, steep slope & Gentle slope case. | 10 | A | CO2 |
| 3 b) | Write short note on … 1) Graphics adopter 2) Initgragh()   1. 3) Resolution 4) aspect ratio 5) NAPLP | 5 | U | CO1 |

# R= Remember, U=Understand, A=Apply, C=Create

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