**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 – III | **Max Marks:** | 30 |
| **Date:** | 6th May 5, 2017 | **Time:** | 9:30 – 10:30 |

**Portions for Test:** Lecture Nos. from 41 to end 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)* | Design a winged edge data structure from the context of solid modeling | *8* | *C* | *CO4* |
| *1 b)* | What is canonical view volume? Distinguish between parallel & perspective projections. | *7* | *R* | *CO3* |

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| 2 a) | Explain the CIE Chromaticity diagram with the help of neat sketches. | 8 | U | CO4 |
| 2 b) | Explain the Gouraud shading algorithm for rendering | 7 | R | CO5 |
| 3 a) | Explain the Z buffer algorithm , along with area coherence algorithm, | 8 | AP | CO5 |
| 3 b) | Derive the mathematical modeling required for Hermite curve. | 7 | Az | CO3 |