

**TILAK MAHARASHTRA VIDYAPEETH, PUNE**  
**MASTER OF SCIENCE (M.SC) IN COMPUTER APPLICATIONS**  
**EXAMINATION : MAY - 2024**  
**SEMESTER - I**

**Sub : Computer Graphics & Multimedia (MSC- 102-22)**

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**Date : 29/05/2024**

**Total Marks : 30**

**Time: 10.00 am To 11.30 pm**

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***Instruction:***

- 1. All questions are compulsory unless and otherwise stated.*
  - 2. Bold figures to the right of every question are the maximum marks for that question.*
  - 3. Candidates are advised to attempt questions in order.*
  - 4. Answers written illegibly are likely to be marked zero.*
  - 5. Use of scientific calculators, Log tables, Mollier Charts is allowed.*
  - 6. Draw neat and labelled diagram wherever necessary.*
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**Q. 1. Answer the following in short. (Any 4) (20)**

- 1 Explain the algorithm for Bresenham's circle drawing.
- 2 What is raster scan and Random scan systems
- 3 Explain parallel projection from perspective projection
- 4 What is Bezier curve?
- 5 Explain Back-Face Detection?
- 6 What is multimedia? What are applications of multimedia?

**Q. 2. Answer the following in detail. (Any 1) (10)**

1. Explain in detail the Sutherland-Hodgeman clipping algorithm with an example.
  2. Explain in detail 2D transformation.
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