

TILAK MAHARASHTRA VIDYAPEETH, PUNE
MASTER OF SCIENCE (M.SC) IN COMPUTER APPLICATIONS
EXAMINATION : DECEMBER – 2023
SEMESTER - I

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

Date : 28/12/2023

Total Marks : 30

Time: 10.00 am to 11.30 am

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.*

Q. 1. Answer the following in short. (Any 4) (20)

- 1 What are the important properties of Bezier Curve?
- 2 What is pixel? What is meant by antialiasing?
- 3 Explain 2D rotation ,scaling and shear transformation
- 4 Explain Raster scan systems and Raster Scan Systems
- 5 Explain any two character generation
- 6 Explain Hidden surface removal in detail.

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

1. Explain in detail the Sutherland-Hodgeman clipping algorithm with an example.
 2. Explain Bresenham's line drawing algorithm
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