



RAN - 2011000305020083

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**T.Y.B.Sc. Comp. Sci. (Sem. V) Examination October - 2023**

**Computer Science**

**Paper 503 - Computer Graphics**

**Time: 2 Hours ]**

**[ Total Marks: 50**

**सूचना : / Instructions**

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नीचे दशविवेक निशानीवाणी विगतो उत्तरवली पर अवश्य लपववी.  
Fill up strictly the details of signs on your answer book

Name of the Examination:

T.Y.B.Sc. Comp. Sci. (Sem. V)

Name of the Subject :

Computer Science Paper 503 - Computer Graphics

Subject Code No.: 2011000305020083

Seat No.:

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Student's Signature

**Q.1. Answer the following questions (Any Seven)**

**14**

1. Define clipping
2. Why we need translation after scaling object?
3. List the types of polygons.
4. What is illumination?
5. What is shading?
6. Define antialiasing
7. List hard copy graphics devices.
8. List different line styles.

**Q.2. Answer in detail. (Any two)**

**12**

1. Discuss Virtual Reality and Image processing.
2. Write and explain Brasenham line drawing algorithm.
3. Write a note on DDA line drawing algorithm.
4. Discuss hard copy devices

**Q.3. Answer the following (Any Two) 12**

1. Explain scaling and translation of polygon.
2. Discuss different types of line caps and thick line joints.
3. Explain winding number technique of polygon inside test.
4. Explain rotation about an arbitrary point

**Q.4. Answer the following (Any Two) 12**

1. Write a program to flood fill algorithm.
  2. Define polygon and its categories. Also write program for drawing a polygon.
  3. Define Graphics file formats and discuss about JPEG.
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