



AB-3177
Third Year B. Sc. (Sem. V) Examination
March/April – 2015
Computer Science : Paper - 503
(Computer Graphics)

Time : 2 Hours]

[Total Marks : 50

Instruction :

<p>नीचे दर्शायेव निशानीवाणी विगतो उत्तरवही पर अवश्य कपवी. Fillup strictly the details of signs on your answer book.</p> <p>Name of the Examination : THIRD YEAR B. SC. (SEM. V)</p> <p>Name of the Subject : Computer Science : Paper- 503</p> <p>Subject Code No. : 3 1 7 7 Section No. (1, 2,...): Nil</p>	<p>Seat No. : <input type="text"/><input type="text"/><input type="text"/><input type="text"/><input type="text"/><input type="text"/></p> <div style="border: 1px solid black; border-radius: 15px; padding: 10px; text-align: center; margin-top: 10px;">Student's Signature</div>
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- 1 Answer the following questions . 14
- (a) Mention the raster functions that are used in graphical packages.
 - (b) Explain illumination and light sources.
 - (c) Give the function for displaying a filled polygon
 - (d) Define raster transformation. Where is raster transformation used?
 - (e) Define diffuse reflection.
 - (f) What is aspect ratio?
 - (g) Explain the use of frame buffer.
- 2 (a) Explain application of graphics giving proper example. 6
- OR**
- (a) Explain parametric circle drawing algorithm with example. 6
 - (b) Explain different line styles. 4
- 3 Answer any two : 14
- (a) Explain basic transformation with matrices .
 - (b) Explain Sutherland-Hodgeman algorithm for polygon clipping.
 - (c) Explain Bresenham's circle drawing algorithm.

4 Write short notes on any **three** :

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- (a) Explain flood fill method
 - (b) Even-odd method.
 - (c) Different kinds of light reflections with example.
 - (d) Graphics file formats.
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