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Brainware University
Barasat, Kolkata -700125

BRAINWARE UNIVERSITY

Term End Examination 2022
Programme – Dip.CSE-2018/Dip.CSE-2019/Dip.CSE-2020
Course Name – Computer Graphics
Course Code - DCSE502
(Semester V)

Full Marks : 60

Time : 2:30 Hours

[The figure in the margin indicates full marks. Candidates are required to give their answers in their own words as far as practicable.]

Group-A

(Multiple Choice Type Question)

1 x 15=15

1. *Choose the correct alternative from the following :*

(i) List the types of computer graphics are

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|----------------------|----------------------|
| a) Vector and raster | b) Scalar and raster |
| c) Vector and scalar | d) None of these |

(ii) Identify that Vector graphics is composed of

- | | |
|-------------|------------------|
| a) Pixels | b) paths |
| c) Patterns | d) None of these |

(iii) Identify that Raster images are more commonly called

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|-------------------------|------------------|
| a) Pix map | b) Bit map |
| c) Both pix and bit map | d) None of these |

(iv) Select the stopping criteria of Bresenham circle drawing algorithm

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|-----------|-----------|
| a) $x=y$ | b) $x>y$ |
| c) $x>=y$ | d) $x<=y$ |

(v) Identify If the boundary is specified in a single color, and if the algorithm proceeds pixel by pixel until the boundary color is encountered is called

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|-----------------------------|-----------------------------|
| a) Scan-line fill algorithm | b) Boundary-fill algorithm |
| c) Flood-fill algorithm | d) Parallel curve algorithm |

(vi) Identify If we want to recolor an area that is not defined within a single color boundary is known as

- | | |
|----------------------------|-----------------------------|
| a) Boundary-fill algorithm | b) Parallel curve algorithm |
| c) Flood-fill algorithm | d) None of these |

(vii) Write why the DDA algorithm is a faster method for calculating pixel positions than direct use of line equation using $y = m*x + c$

- | | |
|-------------------------------------------------------------------------|------------------------------------------------|
| a) it eliminates floating point addition | b) it eliminates floating point multiplication |
| c) it eliminates rounding operation that drift away from true line path | d) None of these |

(viii) Write what does Aliasing mean

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|---------------------|-------------------|
| a) Rendering effect | b) Shading effect |
| c) Staircase effect | d) None of these |

