Term-End Practical Examination

00121 December, 2017

MMTE-004(P) : COMPUTER GRAPHICS

Time :	$1\frac{1}{2}$	Hours Maximum Marks : 40
Note :	(i)	There are two questions in this paper, totalling 30 marks.

- (ii) Answer **both** of them.
- (iii) Remaining 10 marks are for the viva-voce.
- 1. Write a 'C' program using Bresenham's line algorithm to get the output as shown below :



The end point of each segment from the point O is at a distance 6 cm and on the user's click of the mouse on window, the object starts rotating continuously until the user presses the mouse again. 15

2. Write a 'C' program to implement the scan line polygon fill algorithm to fill a polygon whose vertices are $P_1 = (10, 20)$, $P_2 = (20, 0)$, $P_3 = (30, 10)$, $P_4 = (40, 0)$, $P_5 = (40, 40)$, $P_6 = (30, 30)$, $P_7 = (20, 40)$ and $P_8 = (30, 20)$. 15

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