

**M.Sc. (MATHEMATICS WITH APPLICATIONS IN COMPUTER SCIENCE)**  
**M.Sc. (MACS)**

**Term-End Practical Examination**

**June, 2018**

00097

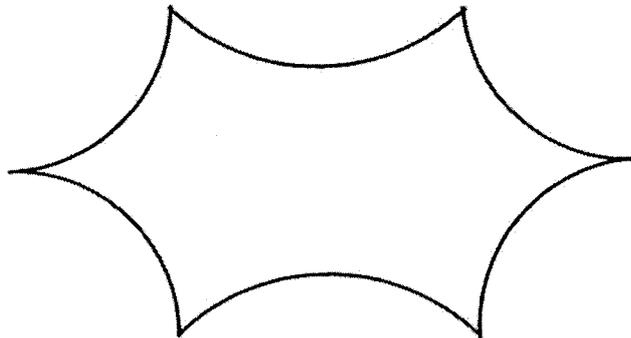
**MMTE-004(P) : COMPUTER GRAPHICS**

*Time :  $1\frac{1}{2}$  Hours*

*Maximum Marks : 40*

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- Note :** (i) *There are two questions in this paper, totalling 30 marks.*  
(ii) *Answer **both** of them.*  
(iii) *Remaining 10 marks are for viva-voce.*
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1. Write a 'C' program to generate a circular arc of any fixed radius and sector size.  
Use this to draw the following figure :



Also fill the interior of this figure by a colour of your own choice using boundary-fill algorithm.

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2. Write a 'C' program to implement the Cohen-Sutherland clipping algorithm to clip the line segment starting from  $(-13, 5)$  and ending at  $(17, 11)$  against a window having its lower left corner at  $(-8, -4)$  and upper right corner at  $(12, 8)$ .

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