13/12/17 (3)

[This question paper contains 2 printed pages]

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Sl. No. of Q.P.	: 8020A		1748 - (xr.)		
Unique Paper Cod	e : 62353326	and his follows with	H		
Name of the Paper	: Mathematical Typesetting S	ystem: LaTeX	SHE ING		
Name of the Cours	e : B.A. Programme – CBCS: S	kill Enhancement			
Semester	: 111				
Duration: 2 Hours		Ma	ximum Marks: 38		
(Write yo	ur Roll No. on the top immediately o	on receipt of this questic	on paper.)		
	All questions are con	npulsory.			
1. Fill in the b	lanks, any four parts from the follow	wing			
	AT MARY A		4 x0.5=2		
(i) LaT	eX is an easy-to-use version of TeX	C designed by	a star A to b		
(ii) In L	(ii) In LaTeX, commands are preceded by symbol.				
(iii)	command is used to give double quotes in LaTeX.				
(iv)	command puts a frame of a specified size around an object.				
(v) To i	nclude graphics in LaTeX documen	it put packag	e in the preamble.		
	and a lap a distantion	ert a fertilitet af the	Corr Witten		
2. Answer any	eight parts from the following:		8 x 2 = 16		
(i) Wri	te the code in LaTeX to produce the	e matrix: $\begin{pmatrix} a & b & c \\ \alpha & \beta & \gamma \end{pmatrix}$.			
(ii) Giv	Give the command in LaTeX to obtain Él está aquí.				
(iii) Wri	Write the output of the command $\int \frac{0}^{\frac{x}{x}}.$				
(iv) Wri	Write the difference between equarray and equarray* environment.				
(v) Exp	in the command \begin{picture}(1	100, 200)(10, 20)			

(vi) Write a command to draw a circle with center (2, 2) and radius 1 in PSTricks.

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- (vii) Write a code in LaTeX to produce the output $\lim_{x \to \infty} \left(\frac{\sin x}{x} \right) = 0.$
- (viii) Explain \overline and \underline commands in LaTeX.
- (ix) Write the following postfix expression in standard form:

t sin t cos mul 1 t sin 2 exp add div

(x) Give a command to produce an oval of length 8 and breath 3.1 and the reference point (1.1, -4).

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3. Answer any three parts from the following:

4 + 4 + 4 = 12

8

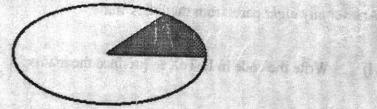
(a) Write a code in LaTeX to plot the cardiod given by the parametric equations:

 $x = \cos t \left(t - \cos t \right), \quad y = \sin t \left(1 - \cos t \right), \quad 0 \le t \le 2\pi.$

(b) Write a code in LaTeX to get the following matrix:

	$\binom{a+b+c}{b+c}$	a ₁₂	13.)
4	210	-2+y-	23+
	a	$\sqrt[3]{x}$	-345)

- (c) Use LaTeX picture environment to make pictures of a square of length 50 units and a circle of radius 20 units.
- (d) Write a code in LaTeX to draw an ellipse with a shaded sector:



- 4. Write a presentation containing in beamer with the following content:
 - Slide-1: Title of the presentation with author and date.
 - Slide-2: Statement of the Pythagorean theorem.
 - Slide-3: The picture of the Pythagorean triangle.
 - Slide-4: Thank You.