This question paper conti	iliis 4-2 printed page	⇒ }
•		Roll No.
S. No. of Question Paper	: 2136	
Unique Paper Code	: 32353301	GC-3
Name of the Paper	: Latex and HTML	
Name of the Course	: B.Sc. (Hons.) Mat	hematics—CBCS : Skill Enhancement
Semester	: III	
Duration: 2 Hours		Maximun
(Write your Ro	oll No. on the top imm	ediately on receipt of this question paper.
•	All question	s are compulsory.
1. Fill in the blanks		

In LaTeX, items can be listed using environment.

(iii) command is used to give comments in a latex docu

(iv) command is used to draw a circle with center (x, y)

(v) attribute of the img tag in HTML is used to specify

Give the command in LaTeX to obtain the expression $\left(\frac{a+b}{x+y}\right)^{\frac{1}{3}}$.

Line breaks in a LaTeX document are produced by

(*i*)

2.

(i)

r in pstricks.

of the image.

Answer any eight parts from the following:

(2)

2136

- (ii) Write the difference between the commands \vdots and \ddots.
- (iii) Write the output of the command:

$$\frac{d}{dx}\left(\int_{0}^{x} f(t), dt\right) = f(x).$$

- (iv) What is wrong with the following HTML construction:
 - This is bold and italics .
- (v) Give any three attributes of the font tag in HTML.
- (vi) What is wrong with the following input:
 - Also checkout the

 University of Delhi

- (vii) Write a code in LaTeX for typesetting $\lim_{n\to\infty} \left(1+\frac{1}{n}\right)^n = e$.
- (viii) Write a LaTeX code to produce \$\mathbb R\$ in the output.
- (ix) Write the command in LaTeX to generate the expression $x^{x^{x^x}}$.
- (x) What is the output of the command $\operatorname{psarc}(1, 1)$ {2} {0} {70} in pstricks.
- 3. Answer any five questions from the following:

5×5=25

(i) Write the code in LaTeX to plot the curves $y = \sqrt{x}$ and $y = x^2$ on the same coordinate. Show the square root function as a dotted curve and the square function as a dashed curve.

(ii) Find the errors in the following LaTeX source, write a corrected version a its output:

\Documentclass{article}

\usepackage{amsmath}

\begin{document}

We have following options

\begin{itemize}

\item \$\$x\ge y\$

\item \$x\le y\$

\item x=y

\end{document}

(iii) Write a code in LaTeX for typesetting the following expression:

$$\frac{\frac{5}{a^2b} - \frac{2}{ab^2}}{\frac{3}{a^2b^2} + \frac{4}{ab}} = \frac{\frac{5b - 2a}{a^2b^2}}{\frac{3 + 4ab}{a^2b^2}}.$$

(iv) Write a code in LaTeX to typeset the following:

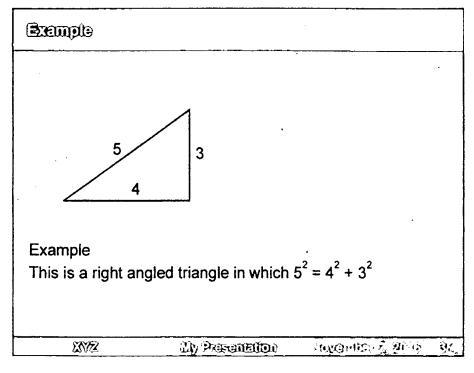
A system of linear equations in 3 variables x_1 , x_2 and x_3 can be represent

$$\begin{bmatrix} a_{11} & a_{12} & a_{13} \\ a_{21} & a_{22} & a_{23} \\ a_{31} & a_{32} & a_{33} \end{bmatrix} \begin{pmatrix} x_1 \\ x_2 \\ x_3 \end{pmatrix} = \begin{pmatrix} 2 \\ 3 \\ 4 \end{pmatrix}.$$

November 2, 2016 November 2, 2016 November 2, 2016 Slide 2 Pythogores Theorem In a right angled triangle the square of the hypotenuse is to the sum of the squares of the perpendicular and base			
November 2, 2016 November 2, 2016 November 2, 2016 Slide 2 Pythegores Theorem In a right angled triangle the square of the hypotenuse is		My Presentation	
Slide 2 Pythegores Theorem In a right angled triangle the square of the hypotenuse is		XYZ	
Slide 2 Pythegores Theorem In a right angled triangle the square of the hypotenuse is		November 2, 2016	6
Slide 2 Pythegores Theorem In a right angled triangle the square of the hypotenuse is			
Slide 2 Pythegores Theorem In a right angled triangle the square of the hypotenuse is			
Pylingons Theren. In a right angled triangle the square of the hypotenuse is	ENVE	The Researcher	i. 60332290
In a right angled triangle the square of the hypotenuse is		Slide 2	
In a right angled triangle the square of the hypotenuse is to the sum of the squares of the perpendicular and base	Pylingons Th	9079111	
In a right angled triangle the square of the hypotenuse is to the sum of the squares of the perpendicular and base			
In a right angled triangle the square of the hypotenuse is to the sum of the squares of the perpendicular and base			
to the sum of the squares of the perpendicular and base	In a right angled t	triangle the square of th	ne hypotenuse is
	to the sum of the	squares of the perpend	dicular and base

SVE

Slide 3



Slide 4

Thank You

Wing Presentation Pr

P.T.O.

(vi) Write an HTML code to generate the following web page:

University of Delhi

Colleges of Delhi University offering BBA/BBE/BFIA programmes at the undergraduate level

- North Campus
 - 1. Shivaji College
 - (a) BMS
 - (b) BBA
 - 2. DDU College
 - (a) BBE
 - (b) BMS
 - South Campus
 - Gargi College
 - (a) BFIA
 - (b) BBE

Keep the following in mind while writing the code:

- (i) Font face for the text should be Arial.
- (ii) Text color of the main heading should be blue.
- (iii) Rest of the text should be in purple.