IT Internal

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Abstract

Answer any 2 of the following 3 questions. Time: 2 hours. Full marks 30.

your abstract

1 introduction

Reproduce the following sections in LaTeX:
LaTeX is a high-quality typesetting system; it includes features designed for the production of technical and scientific documentation. LaTeX is widely used in academia for the communication and publication of scientific documents in many fields, including mathematics, computer science, engineering, physics, chemistry, economics, and political science.

1.1 Coloured Text

Introduction
This is the introduction section, highlighted in blue.
Methodology
This section discusses the methodology, highlighted in red.

Results
This section presents the results, highlighted in green..

1.2 Special Characters

LaTeX allows you to include special characters such as:
Dollar sign: $
Ampersand: &
Percent: %
Hash: #

1.3   Including Figures

To include figures, you first need to upload the image file named sample-image.jpg from your com-
puter using the upload link in the file-tree menu. Then use the includegraphics command to include
it in your document.

1.4   Creating Tables

Use the table and tabular environments for basic tables. Here's an example:

Item	Quantity	Price
Apples	10	$1.50
Oranges	5	$ 2.00

1.5   Mathematical Expressions

LaTeX excels at typesetting mathematics. Here is the quadratic formula inline:
$ax^2 + bx + c = 0$
Displayed version:
$$x = \frac{-b + \sqrt{b^2 - 4ac}}{2a}$$
Sine and Cosine Addition Formulas:

$$sin(a + b) = sinacosb + cosasinb$$

$$cos(a + b) = cosasinb + sinacosb$$

Displayed version:
$$\int_b^a (fx)dx$$

1.6   Lists

You can make lists with automatic numbering . . .

1. First item,

2. Second item,

3. Third item

You can also use bullet points with colored text:

- This text is magenta.

- This text is magenta.

- This text is black.

- This text is grey..

1.7 HyperLinks

For more information, visit the LaTeX project website.

1.8 Bibliography

To include references, you can use BibTeX. Here is an example citation [Doe24].

References

[Gre93] George D. Greenwade. 14(3):342–351, 1993. The Comprehensive Tex Archive Network (CTAN). 3 TUGBoat,