

Roll No. :

Total No. of Questions : 16]

[Total No. of Printed Pages : 3

KLET-154

M.Sc. (Lateral Entry) (Ist Semester)

Examination Jan., 2023

COMPUTER SCIENCE

Paper - FS-COMP-MCSLE-CC-104(B)

(Introduction to LaTeX)

Time : 3 Hours]

[Maximum Marks : 40

The question paper contains three Sections.

Section-A

(Marks : 1 × 10 = 10)

Note :- Answer all *ten* questions (Answer limit **50** words). Each question carries 1 mark.

Section-B

(Marks : 3 × 5 = 15)

Note :- Answer any *five* questions by selecting at least *one* question from each Unit (Answer limit **200** words). Each question carries **3** marks.

Section-C

(Marks : 5 × 3 = 15)

Note :- Answer any *three* questions by selecting *one* question from each Unit (Answer limit **500** words). Each question carries **5** marks.

BRI-1018

(1)

KLET-154 P.T.O.

Section–A

1. (i) What command do you use to emphasize a piece of text in LaTeX ?
- (ii) Write the command to generate the following equation in a new line :
$$ax + by + c = k$$
- (iii) To include chapters, which package is imported ?
- (iv) What package do you import to create bibliographical database in an external file ?
- (v) Write the command to insert a line of text in green.
- (vi) What command will you use to insert a circle in LaTeX document ?
- (vii) What command do you use to generate a new line ?
- (viii) What command do you use to create a new slide while preparing presentation in LaTeX ?
- (ix) Which document class is more suitable for writing a research paper in LaTeX ?
- (x) Give an example for adding a new command in LaTeX.

Section–B

Unit–I

2. Explain how to insert a hyperlink in LaTeX.
3. Demonstrate how to insert a matrix in LaTeX.
4. Explain how to insert special characters in LaTeX.

Unit–II

5. Show how to produce mathematical graphics like line segments, ovals etc. in LaTeX.
6. Explain how index may be generated in a LaTeX document.
7. Explain how an image can be inserted in LaTeX document, on a new page.

Unit-III

- Write the syntax in LaTeX to generate a document with text in different colors and fonts.
- Explain how to create a new command in LaTeX, with parameters.
- Explain how single/multiple spaces may be inserted in a LaTeX document.

Section-C

Unit-I

- Write the syntax for generating the following table :

Field 1	Field 2	Field 3
α	β	γ
123	567	890
data1	data2	data3
1	2	3

- Write the syntax to generate the following set of equations :

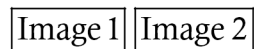
$$ax + by + c = 1 \quad (\text{i})$$

$$m + n + k = 2 \quad (\text{ii})$$

$$a + b + c = k \quad (\text{iii})$$

Unit-II

- Write the syntax to generate a document with *two* images in the following manner :



- Explain the concept of different orientations/placements of images in a document.

Unit-III

- Explain how an article may be created using LaTeX, using a suitable example.
- Design a question paper in LaTeX, with five questions of your choice related to LaTeX.