

(FOR THE CANDIDATES ADMITTED
DURING THE ACADEMIC YEAR 2022 ONLY)

22PMS3E1

REG.NO. :

N.G.M.COLLEGE (AUTONOMOUS) : POLLACHI
END-OF-SEMESTER EXAMINATIONS : NOVEMBER-2023

COURSE NAME: M.Sc.- MATHEMATICS

MAXIMUM MARKS: 50

SEMESTER: III

TIME : 3 HOURS

LATEX

SECTION – A

(10 X 1 = 10 MARKS)

ANSWER THE FOLLOWING QUESTIONS.

(K1)

MULTIPLE CHOICE QUESTIONS.

1. The extension of a LATEX source file is_____.
(a) ltx (b) lat (c) tex (d) dvi
2. The permissible unit in the fixed length_____.
(a) cls (b) clr (c) tag (d) pt
3. The column separator $\backslash>$ is used in the following environment_____.
(a) tabular (b) array (c) tabbing (d) matrix
4. Select the one which is not an environment to list out items_____.
(a) enumerate (b) listing (c) itemize (d) description
5. The binary operation command is_____.
(a) prod (b) emp (c) subset (d) \backslash vectar

ANSWER THE FOLLOWING IN ONE (OR) TWO SENTENCES.

(K2)

6. What is the first command in the preamble?
7. Write down the command to print the current date.
8. What is the command to draw a horizontal line from the left side of the specified column to the right side of the specified column?
9. What is the role of the command character %?
10. Write down the Latex commands to print the output for “not equal” and “greater than or equal”.

SECTION – B

(5 X 3 = 15 MARKS)

ANSWER EITHER (a) OR (b) IN EACH OF THE FOLLOWING QUESTIONS. (K3)

11. a) Explain the features of LATEX in detail.
(OR)
b) Explain the font management of LATEX.

(CONTD.....2)

12. a) How the special characters are handled in LATEX?
(OR)
b) Discuss about LATEX environments.
13. a) Discuss any two environments available for producing formatted lists.
(OR)
b) Describe the standard class options in LATEX.
14. a) Explain 'centering' in indenting of text in LATEX.
(OR)
b) Explain theorem-like declarations with example.
15. a) Explain the main elements of math mode.
(OR)
b) Discuss the mathematical environments in LATEX.

SECTION – C**(5 X 5 = 25 MARKS)****ANSWER EITHER (a) OR (b) IN EACH OF THE FOLLOWING QUESTIONS.****(K4 (Or) K5)**

16. a) Discuss the difference between LATEX2E and LATEX in detail. **K4**
(OR)
b) Write a leave letter using LATEX text commands. **K4**
17. a) Explain rubber length with suitable examples. **K4**
(OR)
b) Explain fragile commands with examples. **K4**
18. a) Explain the various parts of the LATEX document. **K4**
(OR)
b) Explain the method for producing title page, table of contents and sections in LATEX. **K5**
- 19.a) Write a LATEX code to create colors and how to use the colors using LATEX? **K5**
(OR)
b) Explain the commands to draw pictures in LATEX. **K4**
- 20.a) Explain mathematical symbols available in LATEX. **K4**
(OR)
b) Discuss about the mathematical accents and math style parameters. **K4**
