



K15U 0141

Reg. No. :

Name :

III Semester B.Sc./B.C.A. Degree (CCSS-Supple./Imp.)

Examination, November 2015

Core Course in Mathematics

3B 03 MAT : INFORMATICS

(2013 and Earlier Admissions)

Time : 3 Hours

Max. Weightage : 30

1. Fill in the blanks.

- i) _____ holds all the instruction, the computer needs to startup.
- ii) BRNET stands for _____.
- iii) The concept which uses software to allow people to interact with a simulated environment is known as _____.
- iv) The meaning of the command $\backslash(\sqrt[4]{7})\backslash$ in LATEX is _____.

(Weightage 1)

2. Choose the most suitable answer.

- i) The first ATM was put into use in the year
a) 1947 b) 1959 c) 1962 d) 1969
- ii) NICNET was established in the year
a) 1997 b) 1976 c) 1967 d) 2001
- iii) The letter e in e-governance refers to
a) electronic b) electricity c) elected d) energetic
- iv) The extension of a LATEX file is
a) .tex b) .txt c) .lac d) .tec

(Weightage 1)

P.T.O.



Answer **any five** from the following :

(Weightage 1 each)

3. What is internet ?
4. Differentiate between impact printers and non impact printers.
5. What is open source software ?
6. What is e-waste ?
7. What is BIBTEX in LATEX ?
8. What is a delimiter in LATEX ?
9. Write down the command for displaying an equation in LATEX.

10. Explain the special constants in Scilab.

(Weightage : 5×1= 5)

Answer **any seven** from the following :

(Weightage two each)

11. Explain client/server networks.
12. What are the functions of operating systems ?
13. Explain the advantages of DSL.
14. Write short notes on IPR.
15. Write short notes on green computing.
16. Write short notes on e-governance.
17. Explain bio-computing.
18. What are neural networks ? Explain.
19. Illustrate with an example the procedure for displaying a fraction in LATEX.
20. How will you represent matrices in scilab ? Explain with example.

(Weightage : 7×2= 14)



Answer **any three** from the following :

(Weightage three each)

21. What are the functions of INFLIBNET ?
22. Explain the guidelines for proper usage of computers to avoid health issues.
23. Explain the applications of IT in medicine and healthcare.
24. Explain, with suitable examples, the procedure for drawing boxes, lines and vectors in LATEX.
25. Illustrate the method of building interface programs using Scilab.

(Weightage : 3×3=9)