Reg. No. : ....

Name : ....

III Semester B.Sc. Degree (CCSS – Reg./Supple./Imp.) Examination, November 2014
CORE COURSE IN MATHEMATICS
3B 03 MAT : Informatics

Time: 3 Hours   Max. Weightage : 30

1. Fill in the blanks :

   i) A worldwide network of networks is called _____

   ii) ISDN stands for _____

   iii) Free software foundation was founded in the year _____

   iv) The letter e in e-governance refers to _____   **(Weightage 1)**

2. Choose the most suitable answer :

   i) NICNET was established in the year
      a) 1997   b) 1976   c) 1967   d) 2001

   ii) Which is not harmful to a computer ?
      a) Malware   b) Spyware   c) Viruses   d) Cookies

   iii) The Headquarters of INFLIBNET is situated at
      a) Delhi   b) Kolkata
      c) Ahmadabad   d) Bangalore

   iv) The extension of a LATEX file is
      a) .tex   b) .txt
      c) .lac   d) .tec   **(Weightage 1)**

Answer **any five** from the following :   **(Weightage 1 each)**

3. What are the disadvantages of Microwave technology ?

4. What is internet ?

5. What is plagiarism ?

6. Write short notes on the use of IT in crime detection.

7. What is e-Governance ?

8. How will you display a word in blue colour using LATEX ?

9. What is BIBTEX in LATEX ?

10. Write down the syntax for assignment 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. What are search engines ? Explain the different parts of the search engine.

14. List the objectives of INFLIBNET.

15. Write short notes on green computing.

16. Explain bio-computing.

17. Write short notes on virtual reality.

18. What are the merits of LATEX over other word processors ?

19. Illustrate with an example the procedure for displaying a fraction in LATEX.

20. Write down the syntax of different variables in Scilab. **(Weightage : 7×2=14)**

Answer **any three** from the following : **(Weightage three each)**

21. What are the different internet access methods ?

22. Discuss the services provided by NICNET.

23. Explain the applications of IT in business and commerce.

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)**