



M 11227

Reg. No. :

Name :

III Semester B.A./B.Sc./B.Com./B.B.A./B.B.A.T.T.M./B.B.M./ B.C.A./B.S.W.
Degree (CCSS – Reg./Supple.) Examination, November 2011
CORE COURSE IN MATHEMATICS
3 B03 MAT : Informatics

Time: 3 Hours

Max. Weightage : 30

1. Fill in the blanks :

- i) _____ holds all the instructions, the computer needs to startup.
- ii) ISDN stands for _____
- iii) _____ is the founder of free software foundation.
- iv) The concept which uses software to allow people to interact with a simulated environment is known as _____ **(Weightage 1)**

2. Choose the correct answer :

- i) The extension of a LATEX file is
 - a) .tex
 - b) .txt
 - c) .lac
 - d) .tec
 - ii) Which is not harmful to a computer ?
 - a) Malware
 - b) Spyware
 - c) Viruses
 - d) Cookies
 - iii) Which among the following is not an input device ?
 - a) Microphone
 - b) Speaker
 - c) Webcam
 - d) Digital pen
 - iv) Which is not an instant messenger service ?
 - a) ICQ
 - b) Google
 - c) MSN
 - d) DSL
- (Weightage 1)**

P.T.O.



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

3. What are the disadvantages of Microwave Technology ?
4. Differentiate between impact printers and non impact printers.
5. What are the disadvantages of dial-up connection ?
6. What is open source software ?
7. Define data mining.
8. How will you display a word in blue colour using LATEX ?
9. What is BIBTEX in LATEX ?
10. Explain the special constants in scilab. (Weightage : 5×1=5)

Answer **any seven** questions 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. What are search engines ? Explain the different parts of the search engine.
15. Write a short note on information overload.
16. Explain Biocomputing.
17. What are neural networks ? Explain.
18. What are the merits of LATEX over other word processor ?
19. Explain the method of drawing a straight line in LATEX.
20. How will you represent matrices in scilab ? Explain with example. (Weightage : 7×2=14)

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

21. Explain the working of a cell phone in detail.
22. What are the different internet access methods ?
23. Explain the guidelines for proper usage of computers to avoid health issues.
24. What are the domain areas of Artificial Intelligence ? Explain in detail.
25. Illustrate the method of building interface programs using scilab. (Weightage : 3×3=9)