M 2319

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./
B.A. Afsal Ul Ulama Degree (CCSS – Reg./Supple./Improv.)
Examination, November 2012
CORE COURSE IN MATHEMATICS
3B03 MAT : Informatics

Time : 3 Hours   Max. Weightage : 30

1. Fill in the blanks.

   i) ROM is located on the —————

   ii) 1 KB = ————— bytes.

   iii) Open sourse softwares are distributed under ————— license.

   iv) ————— was one of the first expert systems which developed for blood
   disease.   **(Weightage 1)**

2. Choose the correct answer.

   i) All commands in LATEX should precede with

      a) /   b) \   c) ;   d) —————

   ii) Which among the following is not a digital audio format ?
      a) MP3   b) WAV   c) WMA   d) DMA

   iii) A device that receive data packets and send them to the node for which they
   are intented on the same Network.
      a) Router   b) Switch   c) Bridge   d) Gateway

   iv) Unit for measuring data transfer rate is
      a) MIPS   b) KBPS   c) FIOS   d) CPS   **(Weightage 1)**

Answer **any five** questions from the following (weightage **one** each).

3. What are the advantages of Computer Networks ?

4. What is Wi-Fi ?

5. What are the advantages of broad bond internet connection ?

6. What are firewalls ?

7. Define cyber addiction.

8. Write a short note on expert systems.

P.T.O.

9. How will you change the page colour to green in LATEX ?

10. What is the output of the following LATEX Statements.

    \ begin { itemize }

    \ item 2 is an even prime number

    \ item odd prime numbers less than 6 are

    \ begin {enumerate}

    \ item 3

    \ item 5

    \ end {enumerate}

    \ end {itemize}   **(Weightage 5×1=5)**

Answer **any seven** questions from the following (weightage **two** each).

11. What are the advantages of ink jet printers ?

12. List the advantages and disadvantages of microwaves technology.

13. What are search engines ? Explain the different parts of a search engine.

14. Write a short note on green computing.

15. Explain the method of drawing a box in LATEX. Give an example.

16. What are the different types of a operators need in scilab ?

17. How will you print and export graphics in scilab ?

18. What is the importance of IT is defence services ?

19. What is software piracy and how can it be avoided ?

20. Explain about free software movement.   **(Weightage 7×12=14)**

Answer **any three** questions from the following (weightage **three** each).

21. Briefly explain major application softwares.

22. Explain the following academic services in detail.

    a) INFLIBNET   b) NICNET   c) BRNET

23. Explain the role of IT in medicine.

24. Describe the method of building interface programs in scilab.

25. Describe the different threats to computer data. What are the security measures used to prevent it ?   **(Weightage 3×3=9)**