Bachelor level/ B.Sc /3rd Semester

Time: 3 hours

Full Marks: 60

Pass Marks: 30

Subject: Computer Fundamentals (CS337)

Candidates are required to give their answer in their own words as far as practicable. The figures in the margin indicate full marks.

Group A

Long Answer Questions (Any Two)   [2x12=24]

1) Define database. Explain the advantages of using database.
2) How algorithm is different from flow chart? What is the importance of using algorithm? Write an algorithm to find the greater number among two numbers.
3) Define various types of number system with example. Convert the following as given instructions:
   a. $(123)_8$ into hexadecimal number system
   b. $(ABC)_{16}$ into binary number system
   c. $(10111)_2 + (1AC)_{16} = (?)_{10}$
   d. $(0.625)_{10}$ into binary number system

Group B

Short Answer Questions (Any Four)   [4x5=20]

4) What is memory? Explain RAM in detail.
5) Draw the block diagram of computer system. explain each component.
6) What is an operating system? Explain any three functions of operating system.
7) Mention the features of fifth generation of computer in detail.
8) Differentiate between guided and unguided media for data transmission.

Group C

Very short Answer Questions (Any Eight)   [8x2=16]

9) What are the different types of ROM?
10) Give an examples of application software which are uses in scientific field.
11) Differentiate between main frame and super computer.
12) Write the components of multimedia.
13) Clarify the differences between application software and system software.
14) Mention the reason of using web browser.
15) Define www.
16) Write the features of word processing software.
17) What is virus?

THE END