

***B.Tech. Degree I & II Semester Examination in
Marine Engineering May 2014***

MRE 1109 COMPUTER FUNDAMENTALS

Time : 3 Hours

Maximum Marks : 100

(5 x 20 = 100)

- I. (a) Distinguish between application software and system software.
(b) Can you name any two OS's and compare their basic features? Also name important functionalities of an OS.
- OR**
- II. (a) Explain the various hardware and software components used in setting up an internet connection.
(b) Give two examples for compilers and interpreters and distinguish their features too.
- III. (a) Distinguish between while and do-while with examples.
(b) Write a program to print the multiplication table for the number 5 from 1 to 10.
- OR**
- IV. (a) What is the usage of continue statement? Use an example for explaining it?
(b) Write a program to print first 100 prime numbers.
- V. (a) Distinguish between the extern and auto storage classes with examples.
(b) Distinguish between linear and binary search on an array of 1 to 100.
- OR**
- VI. (a) Explain selection sort in detail with an example.
(b) Using array of structures prepare a rank list of students sorted on marks. Make your own assumptions.
- VII. Explain the relational structure of RDBMS? Compare it with other models.
- OR**
- VIII. Define the following
(i) Function overloading
(ii) Multiple inheritance
(iii) Virtual functions
- IX. Demonstrate the relevance of structures with a suitable example.
- OR**
- X. Write a C program to read from a file (SNO, Name, City) Make your own assumptions.