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***B.Tech. Degree I & II Semester Examination in
Marine Engineering May 2015***

MRE 1109 COMPUTER FUNDAMENTALS

Time: 3 Hours

Maximum Marks: 100

(5 × 20 = 100)

- I. (a) What is a system software? Give two examples?
(b) Name the most 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 explain their features too.
- III. (a) Distinguish switch and multiple if 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 even numbers.
- V. (a) Explain storage classes of C with examples.
(b) Distinguish linear and binary search on an array of 1 to 100.

OR

- VI. (a) Explain searching and sorting in detail with an example.
(b) Using array of structures, prepare a rank list of employees sorted on interview marks in qualification, personality and experience. Make your own assumptions.
- VII. List the advantages of RDBMS with files. What are the key features of RDBMS?

OR

- VIII. Define the following:
(i) Operator overloading.
(ii) Single inheritance.
(iii) Virtual functions.
- IX. Demonstrate the relevance of unions with a suitable example.

OR

- X. Write a C program to read from a file (ENO, Name, marks). Make your own assumptions.