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***B.Tech. Degree I & II Semester Examination in
Marine Engineering May 2019***

**MRE 1109 COMPUTER FUNDAMENTALS
(2013 Scheme)**

Time: 3 Hours

Maximum Marks: 100

(5 × 20 = 100)

- I. (a) Draw the block diagram of a digital computer system and explain in detail. (12)
(b) Write a short note on system software and operating systems. (8)
OR
- II. (a) Explain various types of languages using in Computer systems. (12)
(b) Write a short note on LAN and WAN. (8)
- III. (a) Explain basic data types available in C language. (12)
(b) Write a program in C language to find the factorial of a given number. (8)
OR
- IV. (a) Explain multiple branching statements available in C language. (12)
(b) Differentiate between break and continue statements. (8)
- V. (a) Explain various storage classes available in C language. (12)
(b) Write a short note on usage of Command line arguments. (8)
OR
- VI. (a) Write a program in C language to sort a set of numbers in descending order using selection sorting technique. (12)
(b) Write a program in C language to print the Fibonacci series of n terms using recursion. (8)
- VII. (a) Explain the characteristics of various DBMS models. (12)
(b) Write a note on Virtual functions. (8)
OR
- VIII. (a) Explain the characteristics of Object Oriented Programming. (12)
(b) Write the difference between Selection and Projection in relational algebra. (8)
- IX. (a) Explain the usage of Union and Structures in C language with sample program. (12)
(b) Write the usage of fgetc(), fgets(), and fseek() in C language. (8)
OR
- X. (a) Write a program in C language to create a file to store the mark details of a set of students. (12)
(b) What is meant by enumerated data types in C language? (8)
