

INDIAN MARITIME UNIVERSITY
(A Central University, Government of India)
MAY/JUNE 2018 END SEMESTER EXAMINATION
BSc (Nautical Science)
Semester: III
Computer Science Paper I (UG21T2301)

Date:02-07-2018

Max Marks: 70

Time : 3Hours

Pass Marks: 35

Answer any seven of the following.

(7X10=70)

1. a) Represent the decimal 12345.54321 into its equivalent binary number. (10)
b) Convert $(100001100)_2$ into Hexadecimal
c) Convert decimal 465 to its octal equivalent
d) Convert $(1001.01)_2$ to its equivalent decimal
e) Convert hexadecimal $(2\ 4\ 3\ F)_{16}$ to octal
2. a) Find 2's complement of 69_{10} (2)
b) Subtract 15 from 87 using two's complement (4)
c) Do as directed (4)
 - i. add $(10111)_2$ and $(110101)_2$
 - ii. add $(1011001)_2$ by $(111010)_2$
3. Write short notes on
(a) excess 3 code (5)
(b) ASCII code (5)
4. a) Explain the difference between volatile and non-volatile memory give example (5)
b) What is the use of virtual memory? (5)
5. Write short note on different computer environments (10)
6. a) Describe Satellite Communication system (5)
b) What is E-commerce and Give some applications of E-commerce? (5)
7. a) Distinguish between symmetric and asymmetric cryptography. (5)
b) Define digital cash (2)
c) Write notes on SET (3)
8. a) Define Electronic Data Interchange (EDI). Explain the process of EDI (5)
b) Differentiate between Internet and intranet (5)
9. Explain how SSL protocol is used for secure transaction (10)
