

**INDIAN MARITIME UNIVERSITY**  
(A Central University, Government of India)

December 2016 End Semester Examinations  
B.Sc. (Nautical Science)- First Semester (2016-17 batch onwards)

Computer Science (UG21T3104)

Date : 21.12.2016

Time: 3 Hrs

Maximum Marks: 70

Pass Marks : 35

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Note: Answer any SEVEN questions. All questions carry equal marks. (7X10=70)

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1. Write the procedure in MS word to (10 Marks)
  - a. insert bullets and numbering
  - b. create tables
  
2. a) Write the steps to insert a chart in MS-Excel (5 Marks)
- b) What is conditional formatting? Explain how it can be applied to the data (5 Marks)
  
3. a) Explain how slide transitions can be applied to slides and advances the slides automatically (5 Marks)
- b) Define query. Explain the steps in creating a query using query wizard (5 Marks)
  
4. a) Carry out the following conversion (5 Marks)
  - i.  $(32.6)_{10} = (?)_2$
  - ii.  $(101100.0101)_2 = (?)_8$
  - iii. Add  $(10111)_2$  and  $(10101)_2$
  - iv.  $(AB)_{16} = (?)_2$
  - v.  $(85)_{10}$  to excess-3 code
- b) i) Perform subtraction using 2's complement  $10110 - 11010$  (5 Marks)
- ii) Divide  $11100110_2$  by  $110_2$
  
5. Write notes on (10 Marks)
  - a. secondary memory
  - b. compiler
  - c. multiprogramming
  - d. virtual memory
  - e. machine language

6. a) Define E-commerce. Discuss the concerns for E-commerce growth (5 Marks)  
b) What is cryptology? Differentiate the public key and private key algorithm (5 Marks)
7. a) What is SSL? Where is SSL used? (5 Marks)  
b) Write a program to find whether a given number positive or negative (5 Marks)
8. a) Explain for loop with example (5 Marks)  
b) Define array. Explain how to declare and initialize an array with example (5 Marks)
9. a) What is a pointer? How to declare and use pointer? (5 Marks)  
b) Write a program to find factorial of a number using function (5 Marks)

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