

INDIAN MARITIME UNIVERSITY
(A Central University, Government of India)
END SEMESTER EXAMINATIONS- DECEMBER 2018
B.Sc. (Nautical Science)
SEMESTER-I
Computer Science (UG21T4104)

Date: 04.01.2019
Time: 3Hrs

Maximum Marks: 70
Pass Marks: 35

Note: Question No. 1 is compulsory.

Answer any 6 questions from remaining 8 questions (each of 10 marks).
Scientific Calculator is permitted if required.

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- Q.1. (a) Define a database. Give example.
(b) Define Secondary memory state its advantages.
(c) State the difference between Internet and intranet.
(d) Define a variable Give example.
(e) Define pointer. (5 x 2 = 10 marks)
- Q2. Discuss the following in MS word.
(a) inserting symbols and pictures. (5 Marks)
(b) Paragraph options. (5 Marks)
- Q3. (a) What is Microsoft Excel? Explain some of the mathematical functions in Excel. (5 Marks)
(b) What is chart and how do you create a chart in Excel? (5 Marks)
- Q4. (a) What is the difference between Animation and Transition? Write the procedure to apply them. (5 Marks)
(b) Write short notes on table, form, query and report. (5 Marks)
- Q5. Convert the following as directed (5 x 2 = 10 marks)
(a) binary 10110110.0011 to decimal
(b) octal 35.12 to decimal
(c) decimal 293.23 to hexadecimal
(d) decimal 217 to binary
(e) decimal 642 to excess 3 BCD
- Q6. (a) Convert the binary 110010101 to gray code (2 Marks)
(b) Find $(01110011)_2 - (00011011)_2$ using 2's complement Method. (2 Marks)
(c) Find $(01010100)_2 - (01000011)_2$ using 1's complement Method. (2 Marks)
(d) Write short notes on types of memory. (4 Marks)

- Q7. (a) Define array. Explain how to declare and initialize an array with example. (5 Marks)
(b) What is Structure? How it is declared and accessed? (5 Marks)
- Q8. (a) What is a data type? Explain different data types in 'C' with examples. (5 Marks)
(b) Write a C program that reads an integer and find all its divisor (5 Marks)
- Q9. (a) Explain the cryptography and its types. (5 Marks)
(b) Explain the security protocols used for transactions. (5 Marks)
