

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

END SEMESTER EXAMINATION December 2017

Programme: B.Tech (Marine Engineering)	Semester: II
Subject Name: Computer Science	Subject Code: UG11T2205/ UG11T1205
Date: 29.12.2017	Maximum Marks: 100
Time: 10AM – 1PM	Pass Marks: 50

PART – A

Marks: 10 X 3 = 30

(All Questions are compulsory)

1.
 - a) Differentiate between RAM and ROM
 - b) What is use of headers files example any one
 - c) Explain ternary operator? Give example
 - d) find the output

```
#include<stdio.h>
int main()
{
    int i=3;
    i = i++;
    printf("%d\n", i);
    return 0;
}
```
 - e) Explain do while loop with example.
 - f) Describe the difference between structure and union.
 - g) Explain Flowchart with one example.
 - h) Explain scanf statement and printf statement with example.
 - i) Define Function and its advantages.

j) What is the Byte size of 'char' and 'float' in C.

PART - B

Marks: 5 X 14 = 70

(Answer any 5 of the following)

- 2.
- a) Write a C Program to find the factorial of a number where number will be taken as fly (runtime) (7 marks)
- b) Write a C program to check whether a year is leap year or not year will be taken as fly (runtime) (7 marks)
- 3.
- a) Explain Software Development Lifecycle in detail (7 marks)
- b) Explain any three service provided by internet? (7 marks)
- 4.
- a) Explain Switch Case with Example (10 marks)
- b) Explain i) Multiuser Operating system ii) Multithreading operating system (4 marks)
- 5.
- a) Explain Generations of Computer (7 marks)
- b) Write a Program in C to find the Transpose of a Matrix (7 marks)
- 6.
- a) Explain i) Call by Value ii) Call by reference with example (10 marks)
- b) Explain gets () and puts () (4 marks)
- 7.
- a) Explain the Types of Operators in C (10 marks)
- b) Write a short note on SRAM and DRAM (4 marks)
- 8.
- a) Write a C program to Store Information (name, roll and marks) of Student using Structure data where information will be taken as fly(runtime) (10 marks)
- b) Write short note i) Motherboard ii) USB (4 marks)
