

INDIAN MARITIME UNIVERSITY
(A Central University, Government of India)
End Semester Examination Dec 2019/Jan 2020
B.Tech (Marine Engineering)
Semester -II
UG11T1205/2205 - COMPUTER SCIENCE

Date: 10.01.2020

Max Marks: 70

Time: 3 Hours

Pass Marks: 35

Part – A (compulsory)

Answer the following (10x2=20 Marks)

- 1 What is difference between Digital and Analog Computer. [2]
- 2 What is an algorithm and flowchart? [2]
- 3 Write two advantages and two disadvantages of networks. [2]
- 4 What is the value of x in this C code? [2]

```
#include <stdio.h>
void main()
{
int x = 5 * 9 / 3 + 9;
}
```
- 5 Write the syntax of do-while loop. What is the difference between while and do-while loop? [2]
- 6 What is the purpose of size of operator? [2]
- 7 *Describe the use of printf () and scanf () functions in C Program.* [2]
- 8 What is Ms Excel? What are its applications? [2]
- 9 What is the Byte size of 'char' and 'float' in C. [2]
- 10 Convert binary 111111110010 to hexadecimal equivalent. [2]

Part – B

Answer any 5 out of 7 questions (5 x 10= 50 marks)

- 11(a) Write a C program to find whether a given year is a leap year or not. [5]
- (b) Explain the basic computer organization with neat diagram [5]
- 12 (a) Write a C program to check whether a character is an alphabet, digit or special character. [7]
- (b) Explain the concept of software and hardware. [3]
- 13 Explain the Types of Operators in C [10]

- 14 (a) *Describe evolution of computer generations.* [6]
(b) Write a program in C to display the multiplication table of a given integer [4]
- 15 Write a program in C to find the sum of all elements of the array [10]
- 16 (a) Write a short note on Pointers. [5]
(b) Write short note on i) Motherboard ii) USB [5]
- 17 Write a program in C to swap two numbers using the function. [10]

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