Hall Ticket No | | | | | | | | | | | Question Paper Code: ACS001

INSTITUTE OF AERONAUTICAL ENGINEERING

(Autonomous)

Four Year B.Tech I & II Semester Supplementary Examinations - July, 2018

Regulation: IARE – R16

COMPUTER PROGRAMMING

Time: 3 Hours **(Common to All Branches)** **Max Marks: 70**

Answer ONE Question from each Unit
All Questions Carry Equal Marks
All parts of the question must be answered in one place only

UNIT – I

1. (a) The Process followed by a company to process customer orders is as follows: **[7M]**
   i. If the quantity ordered by the customer is less than or equal to that in stock and his credit is OK, then supply the requested order.
   ii. If his credit is not OK, do not do any supply, send him an intimation.
   iii. If the credit is OK, but quantity ordered by him is more than in stock, then supply what is in the stock.

   Draw a flow chart to implement the above company policy.

   (b) Find the value of b, if b=ã, where a=23, give it's description also. **[7M]**

2. (a) Explain bit-wise operators with example. **[7M]**

   (b) What are the value of a, b, c after execution of following code segment. **[7M]**

```
void main ()
{
int a=6, b=4, c=0;
c = (a- -, a*b++*10);
}
```

UNIT – II

3. (a) Write a C program that reads a positive integer, then count and display number of even and odd digits in it. (Eg. 21967, Even Digits-2, Odd Digits-3). **[7M]**

   (b) Write a C program to read a line of text and display number of words and vowels in it. **[7M]**

4. (a) Briefly explain about various String Handling Functions in C. **[7M]**

   (b) Write a C Program to consider all the two digit numbers and display those numbers whose sum of their digits is 9 or 7. **[7M]**

UNIT – III

5. (a) Explain the usage of pointers and the unary operators used. **[7M]**

   (b) Write a C Program to find sum of elements of a given array using pointers. **[7M]**

6. (a) What is function prototype? Write a program to illustrate function with parameters and return value. **[7M]**

   (b) Write a recursive function to display Fibonacci series of given N value using Recursion. **[7M]**

UNIT – IV

7. (a) What is structure and how it is differentiated from a union. **[7M]**

   (b) List various library functions used in dynamic memory allocation. **[7M]**

8. (a) Explain how a structure is passed through pointer to a function. **[7M]**

   (b) Write a C Program how to define nested structures and their initialization. **[7M]**

UNIT – V

9. (a) Write a C program to read two numbers from a file and display their sum. **[7M]**

   (b) Explain briefly about command line arguments. **[7M]**

10. (a) Explain about various file opening modes with example. **[7M]**

    (b) Write a C Program to copy a text file into another text file by skipping vowels. **[7M]**