

Exam.Code:0597
Sub. Code: 4258

1056
Diploma Course (Add-on)
Computer Based Business Statistics
Paper – I

Max. Marks: 75

Time allowed: 3 Hours

NOTE: Attempt five questions in all, including Question No. I which is compulsory and selecting one question from each Unit.

x-x-x

- I. Attempt any five of the following:-
- What is the difference between RAM and ROM?
 - What is the difference between impact Printers and non - impact printers?
 - What is the difference between a variable and a constant?
 - What are pre-processor directives?
 - Name any two string function in C.
 - What is dynamic binding?
 - What are function templates in C⁺⁺?
 - Give difference between a class and a object. (5x3)
- II. What is the purpose of Central Processing Unit (CPU) in a Digital Computer? What are the components of a CPU? What effect did Integrated Circuit (IC) technology has on the CPU? Explain your answer. (15)
- III. Perform the following number system conversions:
- $10100.1101_2 = ?_{16}$
 - $F3A5_{16} = ?_2$
 - $101111.0111_2 = ?_8$
 - $15C.38_{16} = ?_2$
 - $10100.1101_2 = ?_{10}$ (5x3)
- IV. Define Operator, Operand and Expression in 'C'? Name and explain different types of operators in C-language with the help of examples. (15)
- V. What is the difference between a C function and a C macro? Illustrate your answer by defining a C function and a C macro to return the minimum of two values. (15)

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(2)

- VI. How is an array different from basic data types in C? Using pointers, write a C-function to Sort an array of n integers in ascending order. (15)
- VII. Explain four major advantages of Object Oriented Programming with the help of an example each. Define the terms constructor and destructor in C⁺⁺. Give an example of each. (15)
- VIII. Explain the following in the context of C⁺⁺:
- a) Exception handling
 - b) Inheritance
- (8,7)

x-x-x