3E1482

B. Tech. (Sem. III) (Main/Back) Examination, January - 2012
Electrical Engg.
3EE2 Computer Programming - I

Time : **3** Hours]   [Total Marks : **80**
                                           [Min. Passing Marks : **24**

Instructions to Candidates :

*Attempt any **five questions** selecting **one question** from each unit. All questions carry **equal** marks. Schematic diagrams must be shown wherever necessary. Any data you feel missing suitably be assumed and stated clearly. Units of quantities used/calculated must be stated clearly.*
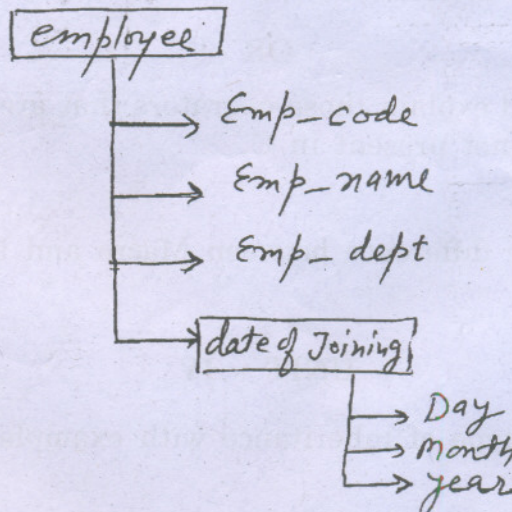
Use of following supporting material is permitted during examination. *(Mentioned in form No. 205)*

1. _____ Nil _____   2. _____ Nil _____

UNIT - I

1   What is structure in C and how it is different from an Array ? Also write a program to create a structure whose pictorial representation is like shown below :
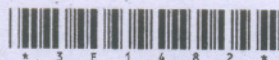

Also create instances for this structure to store data of 1000 employees.

16

OR

1 (a) Write a C program to copy first 100 characters of file1.txt to file2.txt.

12

  (b) Explain command line Argument syntax in C with meaning of each argument.

4

UNIT - II

2 (a) Explain the difference between class and object.

8

  (b) Explain attributes of a protectedly derived class.

8

OR

2 (a) With the help of suitable example explain the need of data hiding and it's implementation in C++.

8

  (b) State the difference between class in C++ and structures in C.

8

UNIT - III

3 Explain the syntax and use of constructor and destructor with the help of an example. Is it possible to overload them ? Justify your answer.

16
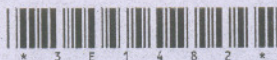
OR

3 (a) State and explain those operators that are available in C++ but was not present in C.

8

  (b) State the difference between Macro and Inline function.

8

UNIT - IV

4 (a) Explain type of inheritance with example.

8

  (b) What is abstract class ? How can you make a class abstract ?

8

OR

4   (a) State the difference between static and virtual functions.

                                                  8

   (b) Explain the difference between compile time and Run time polymorphism.

                                                  8

UNIT - V

5   Write short notes on following :

   (a) File Access permissions in C++

   (b) Standard Template Libraries (STL)

                                                  8×2

OR

5   (a) Input and output flags

   (b) Difference between functional programming and OOP.

                                                  8×2

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