

D 23506

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Name.....*ME*.....

Reg. No.....

**THIRD SEMESTER B.TECH. (ENGINEERING) DEGREE
EXAMINATION, DECEMBER 2011**

CE 04 302—COMPUTER PROGRAMMING IN C

Time : Three Hours

Maximum : 100 Marks

Answer all questions.

Part A

- I. (a) Draw the basic block diagram of a computer.
- (b) Briefly explain the programming language.
- (c) Explain briefly about "Lexical Elements and Numerical Constants".
- (d) Write a short note on "Precedence and associativity of operators".
- (e) Explain with an example of "if statement".
- (f) Explain the uses of continue and break statements with an example.
- (g) Briefly explain the applications of "Arrays" in C Programming.
- (h) Explain the uses of "text files".

(8 × 5 = 40 marks)

Part B

- II. (a) With suitable example, explain in detail about the developing algorithms and flowcharts in 'C'.

Or

- (b) (i) Explain in detail about the steps involved in Computer Programming. (8 marks)
- (ii) Explain in detail about the debugging a program in C. (7 marks)

- III. (a) Write a technical note of the following :—

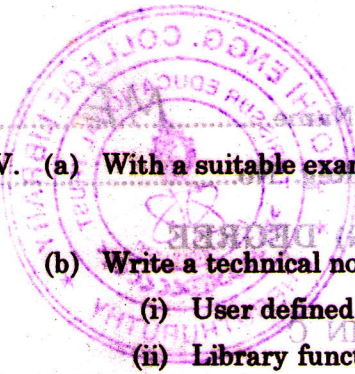
- (i) Arithmetic expressions and conversions.
- (ii) Assignment expressions and Multiple expressions.
- (iii) I/O format specifiers.

Or

- (b) Discuss in detail about the "fundamental data types, relational operators and conditional operators".

(15 marks)

Turn over



IV. (a) With a suitable example, explain in detail about "loop control statements" in 'C'.

Or

(b) Write a technical note of the following :—

- (i) User defined functions.
- (ii) Library functions.
- (iii) Recursion.

Time : Three Hours

(15 marks)

V. (a) Discuss in detail about "bitwise operators and structures in arrays".

Or

(b) Explain with an example program about "pointers and arrays" in 'C'.

(15 marks)

[4 × 15 = 60 marks]

(8 × 5 = 40 marks)

II. (a) With suitable example, explain in detail about the developing algorithms and flowcharts.

(8 marks)

(7 marks)

III. (a) Write a technical note of the following :—

(b) Discuss in detail about the "fundamental data types, relational operators and conditional operators".

(15 marks)

Time over