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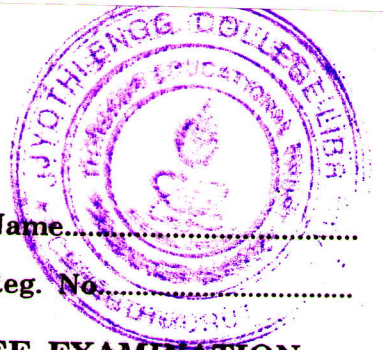
THIRD SEMESTER B.TECH. (ENGINEERING) DEGREE EXAMINATION DECEMBER 2010

CH 04 302—COMPUTER PROGRAMMING IN C

Time : Three Hours

Maximum : 100 Marks

Part A

I. 1 Explain the various symbols used in flow charts.

2 Compare and contrast Compilers and Interpreters.

3 Explain the data types in "C" Languages.

4 What is bit level operator in "C" ? Give *one* example.

5 Explain the while statement with *one* example.

6 What is the use of break statement ? Give example.

7 Explain any *four* string functions in "C". Give examples.

8 Give examples of structures in arrays and arrays in structures.

(8 × 5 = 40 marks)

Part B

II. (a) (i) Compare and contrast high level and low level languages.   (6 marks)

(ii) Discuss the steps in computer programming.   (9 marks)

Or

(b) (i) Draw the block diagram of a digital computer and explain the function of each block.

(10 marks)

(ii) Explain the description of a programming language.   (5 marks)

III. (a) Discuss in detail about precedence and Input-Output statements in C.   (15 marks)

Or

(b) (i) Explain the structure of a C program.   (8 marks)

(ii) Explain the increment. decrement and conditional operators in C.   (7 marks)

IV. (a) With suitable example explain the loop control and conditional statements.

Or

(b) Discuss in detail about user defined and library functions.

(15 marks)

V. (a) Discuss in detail about structures in arrays with necessary examples.

Or

(b) Write a technical note on "Unions and Pointers".

(15 marks)

[4 × 15 = 60 marks]