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Question Paper Code: 51107

B.E. / B.Tech. DEGREE EXAMINATION, NOV 2016

First Semester

Civil Engineering

15UCS107 - COMPUTER PROGRAMMING

(Common to ALL branches)

(Regulation 2015)

Duration: Three hours

Maximum: 100 Marks

Answer ALL Questions

PART A - (10 x 1 = 10 Marks)

- The first computers were programmed using
 - Assembly language
 - Machine Language
 - Source code
 - Object code
- Link with another part of program or connectors in flowchart are shown in
 - Rhombus
 - Parallelogram
 - Circle
 - Trapezoid
- Which of the following special symbol allowed in a variable name?
 - * (asterisk)
 - | (pipeline)
 - (hyphen)
 - _ (underscore)
- Which of the following is the correct usage of conditional operators used in C?
 - $a > b ? c = 30 : c = 40;$
 - $a > b ? c = 30;$
 - $\max = a > b ? a > c ? a : c : b > c ? b : c$
 - $\text{return } (a > b) ? (a : b)$
- The continue statement cannot be used with
 - for
 - switch
 - do
 - while

17. (a) (i) Sketch the basic structure of a C program with an example. (8)
(ii) Illustrate the compiling and linking process for a C program. (8)

Or

- (b) Categorize different types of operators in C with the operator precedence chart. Give example programs. (16)

18. (a) (i) Write a program to check if a number is positive or negative using nested if else. (8)
(ii) Write a program to display the factors of a given integer. (8)

Or

- (b) Write a menu driven program which has following options: (i) Factorial of a number (ii) Prime or not (iii) Odd or even (iv) Exit. (16)

19. (a) (i) What do you mean by recursion? Explain with an example. (8)
(ii) Explain two dimensional arrays with an example. (8)

Or

- (b) (i) Discuss any four string handling functions in C. (8)
(ii) List any two storage classes in C with examples. (8)

20. (a) (i) Explain how pointers are declared and initialized. (8)
(ii) Prescribe the method of using pointer variables in expressions. (8)

Or

- (b) (i) Explain union with suitable examples. (8)
(ii) What is dynamic memory allocation? Explain briefly. (8)
