Exam. Code: 0028
Sub. Code: 0926

1058

Bachelor of Computer Applications

2nd Semester

BCA-204: Computing Programming and Problem Solving Through C

(Old: 2015-16)

Time allowed: 3 Hours | Max. Marks: 90

NOTE: *Attempt five questions in all, including Question No. IX (Unit-V) which is compulsory and selecting one question each from Unit I-IV.*

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UNIT-I

I. (a) Draw difference between flowchart and algorithm. (9)

(b) Brief out about:

(i) getch()
(ii) getche()
(iii) getchar()
(iv) gets() (9)

II. (a) How development, debugging and execution of a program is carried out? Explain. (9)

(b) Draw difference between: -

(i) Unformatted and formatted I/O
(ii) gets() and puts() with examples. (4½+4½)

UNIT-II

III. (a) What is expression? Explain how arithmetic expression is evaluated.(1+3)

(b) Explain relational and logical operators in detail. (5)

(c) Explain various decision making controls in C language. (9)

IV. (a) Draw difference between "while" and do-while statements. (5)

(b) Explain Hierarchy of operators. (4)

(c) Define function? How parameters are passed to them? Explain with example. (9)

UNIT-III

V. (a) Draw difference between single and multidimensional arrays with suitable examples. (9)

(b) What is the benefit of using "structure" in program? Also explain how the structure members are accessed. (9)

P.T.O.

VI. (a) Write a program in C to sort a list. (6)

(b) Make a C-code to manipulate a matrix. (6)

(c) Draw difference between structure and union. (6)

UNIT-IV

VII. (a) What is string? How are they declared and handled in C programs? Explain with examples. (9)

(b) Write a C-program to explore any three file operation with example. (9)

VIII. (a) How strings are read and written in C-code? Explain with atleast any three functions. (9)

(b) What is the use of pointer over other variables? How are they used in C-language? Explain. (4)

(c) Write a note on "Pointers and Arrays". (5)

UNIT-V

IX. Explain: -

(a) Data-file

(b) Difference between constant and variable

(c) History of C

(d) Structure of C Program

(e) Conditional operator

(f) Type casting

(g) Nested if statement

(h) Difference between break and continue (18)

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