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BACHELOR OF COMPUTER APPLICATIONS (B.C.A.)
SPECIALIZATION IN CYBER SECURITY (CS)
EXAMINATION : DECEMBER/JANUARY -2023-24
SEMESTER - I
Sub : C Programming (BCA –141-18/BCA-141-20/BCA-CS-141-20)

Date: 01/01/2024   **Total Marks:60**   **Time: 10.00 am to 12.30 pm**

Instructions:
1. *All questions are compulsory unless and otherwise stated.*
2. *Bold figures to the right of every question are the maximum marks for that question.*
3. *Candidates are advised to attempt questions in order.*
4. *Answers written illegibly are likely to be marked zero.*
5. *Use of scientific calculators, Log tables, Mollier Charts is allowed.*
6. *Draw neat and labelled diagrams wherever necessary.*

Q.1.   **Fill in the blanks.**   **(5)**
1.   Which of the following is not a keyword.
     a) Void   b) Case
     c) For   d) Main
2.   Keyword break cannot be simply used within
     a) For   b)If-Else
     c) Switch-case   d) While
3.   In a for loop the statement in the bracket are separated by:
     a) Comma   b)Semicolon
     c) Spaces   d) none of above
4.   The conversion specification for string is -----
     a) %c   b) %S
     c) %f   d) %s
5.   C Language has been designed and written by
     a) F. C Codd   b)Denis Ritchie
     c) James Sosling   d) Jackson Radison

Q.2.   **State True/False**   **(5)**
1.   Every if must have else clause
2.   Default must be the last statement in switch case statement
3.   Return statement is compulsory in function.
4.   Keyword cannot be used as a variable name.
5.   Every C program must contain main () function

Q.3.   **Answer the following. (Solve any 5)**   **(10)**
1.   What is comment in C?
2.   What is variable? How to declare and initialize variables?
3.   What is the difference between gets () and scanf ()?
4.   Define comments in C?
5.   What is pointer?
6.   What is difference between a++ & ++a?

Q. 4. **Answer the following in detail. (Solve any 6)** **(30)**
1. Explain any 2 data types in brief.
2. What is structure? Explain the syntax of structure declaration with example.
3. Explain break and continue statement in loops with example.
4. What is String? Explain with example strcmp () function.
5. Explain file handling in brief? What are the different files modes available in C.
6. What is array in C? explain the how you can access the value within array?
7. Explain Function declaration, function definition and function calling with example.

Q. 5. **Answer the following in detail. (Solve any 1)** **(10)**
1. Explain any five string manipulation library functions with examples.
2. Write a program to concatenate one string to another string without using library.

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