

TILAK MAHARASHTRA VIDYAPEETH, PUNE
BACHELOR OF COMPUTER APPLICATIONS (B.C.A.)
SPECIALIZATION IN CYBER SECURITY (CS)
EXAMINATION : JANUARY- 2023
SEMESTER - I
Sub: C Programming (BCA-141-20/BCA-CS-141-20)

Date : 4/01/2023

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 these is a user-defined data type in C?
 - a) int
 - b) char
 - c) float
 - d) structure
2. A sqrt() function is used to calculate
 - a) Square
 - b) square root
 - c) square of reverse bit
 - d) none
3. Which of these is valid syntax to include a header in C?
 - a) #include<header>
 - b) include (header)
 - c) include [header]
 - d) None
4. In which year was C language developed?
 - a) Dennis Richardson
 - b) Dennis Ritchie
 - c) Bjarne Stroustrup
 - d) Bill Gets
5. Which of the following is not key word
 - a) switch
 - b) do
 - c) struct
 - d) do while

Q.2. State True/False. (5)

1. Structure can contains similar data types
2. A c program must have at least one main function
3. C is a low level language
4. When function does not return anything it is called as void
5. C is an object oriented language

Q.3. Answer the following. (Solve any 5) (10)

1. Define comments in C?
2. What is pointer?
3. What are constants?
4. Explain Modulus operator with example.
5. What are prefix & postfix operators?
6. Define format specifier.

Q. 4. Answer the following in detail. (Solve any 6) (30)

1. Write a program to find of maximum from 3 numbers using nested if.
2. Explain break and continue statement with example.
3. Explain switch case statement with example.
4. What is string? Explain with example strcmp() function
5. Define structure with example.
6. What is File? What are different files modes available in C
7. Write short note on symbolic constants.

Q. 5. Answer the following in detail. (Solve any 1) (10)

1. What is function? What is the need of function? What is user defined function
 2. Write a program to print factorial using recursive function.
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