

March 2021

PROGRAMMING CONCEPT USING C

Time Allowed: 2 Hours

Full Marks: 35

Answer to Question No.1 is compulsory and Answer any five questions from the rest.

1. Answer the following questions (any ten): 10x1
- i) What is the output of the following program?

```
main(){
    int x = 5, y = 10, z = 10;
    x = y == z; printf("%d", x);}
```

(a) 0, (b) 1, (c) 2, (d) -1
 - ii) What is the output of the following program?

```
main(){
    int x = 10; if(x = 20) printf("TRUE");
    else printf("FALSE");}
```

(a) True, (b) False, (c) No output, (d) None of these
 - iii) A complete, detailed, and precise step-by-step method for solving a problem independently is called _____.
 - iv) Comments cause the computer to print the text enclosed between _____ when executed.
 - v) _____ errors are detected by the compiler.
 - vi) A _____ cannot be used as a variable.
 - vii) Single character constants are enclosed within _____ quotes.
 - viii) There are _____ reserved words applicable in C.
 - ix) In which of the following languages, the instructions are written in the form of 0s and 1s? –
(a) Assembly language, (b) Programming language, (c) High-level language, (d) Machine language.
 - x) Any C program – (a) Must contain main () method, (b) Need not contain any function, (c) Needs input data, (d) None of the above.
 - xi) Which of the following statement is true? – (a) Use of comments reduces the speed of execution of a program, (b) Comments serve as internal documentation for programmers, (c) Comment lines are executable statements, (d) In C, we can have nested comments.
 - xii) Given the statement: int a = 10, b = 20; Determine which of the statements is false – (a) The statement a+=10 is valid, (b) The expression a + 4/6 * 6/2 evaluates to 10, (c) The expression b + 3/2 * 2/3 evaluates to 20, (d) The statement a+=b; gives the values 30 to a and 20 to b.
2. What is a token? Write a program to print factorial of any given number using user defined function. 2+3
3. Write a program to print all Armstrong numbers in between range 100 to 1000. What is Reserved Word? 3+2

4. What is Type casting? Write two math functions utility. Compare break and exit() in c prog. 1+2+2
 5. Write a program to print Reverse number of a given number. What is Ternary operator in C? 4+1
 6. What is an Array? Write a program to print sum and average of 10 natural numbers. 2+3
 7. What is a Flowchart? Draw a flowchart to display a largest number among three different numbers. 2+3
 8. Write names of four String functions of C language. Write a C program to print the reverse of any given word. Input: Pen Output: neP. 2+3
 9. Explain different operators in C language. Compare for and do-while loop in C. What is the use of atoi() function? 3+1+1
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