

Internal Assignment

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Course Code - OBC 102

Course Title - Foundations of Computer Programming

Part A : Multiple-Choice Questions

Q1. C language has been developed by _____

Ans (b) Dennis Ritchie

Q2. C can be used on _____

Ans (d) All the above

Q3. C programs are converted into machine language with the help of _____

Ans (b) A compiler

Q4. Which of the following statements is false ?
Ans (a) Each new C instruction has to be written on a separate line

Q5. Which of the following shows the correct hierarchy of arithmetic operators in C _____

Ans (d) / or *, - or +

Q6. The expression, $a = 30 * 1000 + 2768$; evaluates to _____

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Ans (a) 32768

Q7. Which of the following is FALSE in C ?

Ans (a) Keywords can be used as variables' names

Q8. In C, Arithmetic instruction cannot contain _____

Ans (d) constants on left side of =

Q9. A C program can execute without the main() function ?

Ans (c) Partially True

Q10. A _____ statement takes the execution control out of the loop.

Ans (a) break

Q11. The three type of loops available in C are for, while , and _____ .

Ans (c) do - while

Q12. The ++ operator increments the operand by _____ .

Ans (b) 1

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Q13. A do-while loop is useful when we want that the statements within the loop must be executed _____.

Ans (b) At least once

Q14. In what sequence the initialization, testing and execution of body is done in a do-while loop

Ans (a) Initialization, execution of body, testing

Q15. When we need to choose one among number of alternatives, a _____ statement is used.

Ans (d) switch

Q16. A C program can contain _____ main functions.

Ans (a) Only 1

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Q17. Comments are _____ by the compiler.

Ans (a) Avoided

Q18. If a is an integer variable, $a = 5/2$; will return a value _____

Ans (c) 2

Q19. What will be the output of the following code?

Ans void main()

```
{
    int a, b;
    a = 3 - 3;
    b = -3 -- (-3);
    printf ("a = %d b = %d", a, b);
}
```

Ans (c) 0, -6

Q20. Files included in a C program with h extension are called as _____

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Ans (b) Header Files

Part B : Subjective Questions

Q1. Why and when do we use the #include directive ?

Ans 1 The #include directive is a preprocessor directive. It is used to add the contents of a header file into a code file before compilation . This makes the functions and definitions from the include file available in the current source code file .

Q2. Why do we need to use comments in programs ?

Ans 2 Comments are needed to make code easier for human to understand . Comments are ignored by compiler so we can write anything in that .

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Q5. What is initialization ? Why is it important ?

Ans 5 Initialization is defining variable for or constant values that will be used in code for further execution of program . It is used when we want variable to have some initial value .

Q6. Write a C program to print your Name , Age , Date of Birth and Address . Every information should be printed in a new line .

Ans 6 #include <stdio.h>

```
int main() {
    printf ("Name : %s\n", "Alpha Beta");
    printf ("Age : %d\n", 21);
    printf ("Date of Birth : %s\n", "1995-10-23");
    printf ("Address : %s\n", "123 Somewhere in India");
```

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return 0 ;

}

Q7. Write a C program to find the sum, minus, product and division of two numbers.

Ans7 # include <stdio.h>

```
int main() {
    int a, b;
    a = 6 ;
    b = 2 ;
    printf ("Sum : %d\n", (a + b)) ;
    printf ("Minus : %d\n", (a - b)) ;
    printf ("Product : %d\n", (a * b)) ;
    printf ("Division : %d\n", (a / (float) b)) ;
```

return 0 ;

}