INTERNAL ASSIGNMENT

Course Code: OBC 102   **Last Date of Submission: 20/11/2023**
Course Title: Foundations of Computer Programming

Note:
1. The assignment will have two parts, A and B. Part A is of 20 MCQ type questions.
2. Part B has 8 Descriptive Questions. Attempt any 5 out of it.

Part A: Multiple-Choice Questions

Q1. C language has been developed by _____
a) Ken Thompson
b) Dennis Ritchie
c) Peter Norton
d) Martin Richards

Q2. C can be used on _____
a) Only MS-DOS operating system
b) Only Linux operating system
c) Only Windows operating system
d) All the above

Q3. C programs are converted into machine language with the help of _____
a) An Editor
b) A compiler
c) An operating system
d) None of the above

Q4. Which of the following statements is false?
a) Each new C instruction has to be written on a separate line
b) Usually all C statements are entered in small case letters
c) Blank spaces may be inserted between two words in a C statement
d) Blank spaces cannot be inserted within a variable name

Q5. Which of the following shows the correct hierarchy of arithmetic operators in C _____.
a) **, * or /, + or -
b) **, *, /, +, -
c) **, /, *, +, -
d) / or *, - or +

Q6.
The expression, a = 30 * 1000 + 2768; evaluates to _____.
a) 32768
b) -32768

c) 113040
d) 0

Q7. Which of the following is FALSE in C?
a) Keywords can be used as variable names
b) Variable names can contain a digit
c) Variable names do not contain a blank space
d) Capital letters can be used in variable names

Q8. In C, Arithmetic instruction cannot contain _____.
a) variables
b) constants
c) variable names on right side of =
d) constants on left side of =

Q9. A C program can execute without the main() function?
a) True
b) False
c) Partially True
d) None

Q10. A _____ statement takes the execution control out of the loop.
a) break
b) continue
c) exit
d) None of the above

Q11. The three type of loops available in C are for, while, and _____.
a) again
b) next
c) do-while
d) None

Q12. The ++ operator increments the operand by _____.
a) No increment
b) 1
c) 2
d) 11

Q13. A do-while loop is useful when we want that the statements within the loop must be executed _____.
a) Only once
b) At least once
c) More than once
a) None of the above

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

a) Initialization, execution of body, testing
b) Execution of body, initialization, testing
c) Initialization, testing, execution of body
d) None of the above

Q15. When we need to choose one among number of alternatives, a _____ statement is used.
a) Choice
b) Option
c) Alternative
d) switch

Q16. A C program can contain _____main functions.
a) Only 1
b) Only 2
c) Only 3
d) None

Q17. Comments are _____ by the compiler.
a) Avoided
b) Compiled
c) Executed
d) None

Q18. If a is an integer variable, a = 5 / 2 ; will return a value _____
a) 2.5
b) 3
c) 2
d) 0

Q.19
What will be the output of the following code?\

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

a) 0, 6
b) 3-3, -3- -(-3)
c) 0, -6
d) None

Q.20 Files included in a C program with .h extension are called as _____
a) Head files
b) Header Files

c) Heap Files
d) Happy Files

Part B: Subjective Questions
Answer the following questions in brief:

Q1. Why and when do we use the #include directive?
Q2. Why do we need to use comments in programs?
Q3. Explain the process of transforming source code to .exe of a C program.
Q4. Explain the datatypes used in C language.
Q5. What is initialization? Why is it important?
Q6. Write a C program to print your Name, Age, Date of Birth and Address. Every information should be printed in a new line.
Q7. Write a C program to find the sum, minus, product and division of two numbers.
Q8. Write a C program to find the factorial of a given number.