PPS CT1 MCQ Answer Key - PPS notes from 2022-2023

Programming For Problem Solving (SRM Institute of Science and Technology)

COLLEGE OF ENGINEERING AND TECHNOLOGY, SRMIST
DEPARTMENT OF COMPUTER SCIENCE & ENGINEERING

CYCLE TEST – I
Academic Year: 2021-2022 (ODD Semester)

Program offered: B. Tech (All Branches)   **Year / Sem: I / I**
Max. Marks: 25   **Duration: 50 minutes**

Course Code and Title: 18CSS101J : Programming for Problem Solving

Course Learning Rationale (CLR):

CLR-1 : Think and evolve a logically to construct an algorithm into a flowchart and a pseudocode that can be programmed

Course Learning Outcomes (CLO):

CLO-1 : Identify methods to solve a problem through computer programming. List the basic data types and variables in C

Part A (15* 1 = 15 Marks)

1. Who is the father of C language?
a) Steve Jobs
b) James Gosling
c) Dennis Ritchie
d) Rasmus Lerdorf
Answer: C

2. Where can we include comments in a C program?
A) Before header file
B) Before main function
C) Anywhere in the C code
D) During variable declaration
Answer: C

3. C programming is a _____ level language.
A) Low
B) High
C) Assembly
D) Machine
Answer: B

4. Preprocessor directives begin with _____
A) *
B) %
C) #

D) /
Answer: C

5. Execution ends with a _____
A) }
B) getch()
C) putch()
D) ;
Answer: A

6. Which of the following is not a valid C variable name?
a) int number;
b) float rate;
c) int variable_count;
d) int $main;
Answer: D

7. What is the sizeof(char) in a 32-bit C compiler?
a) 1 bit
b) 2 bits
c) 1 Byte
d) 2 Bytes
Answer: C

8. Which one is true/false
        Statement 1: C Supports for Graphics
        Statement 2: C Supports large number of Operators

A) Both are false
B) Both are true
C) Statement 1 is true, statement 2 is false
D) Statement 2 is true, statement 1 is false
Answer: B

9. Which one of the following is not a keyword in C programming?
        A. auto
        B. extern
        C. global
        D. register
Answer: C

10. Which of the following will not valid expressions in C?
        a) a=2+(b=5);
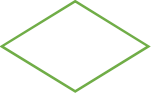   b) a=11%3;
        c) a=b=c=5;
        d) b+5=2;
Answer: D

11. Identify the operator that returns amount of memory assigned for a variable
A) sizeof()
B) conditional operator
C) relational operator
D) logical operator
Answer: sizeof()

12. Which symbol is been used for processing in flowchart?

a)

b)

c)

d)

Answer: B

13. Value of A, B and C in the following code snippet is
```
int A=10, B, C;
B = --A;
C = A--;
```

   a. 9, 10, 10
   b. 10, 9, 8
   c. 9, 9, 8
   d. 8, 9, 9

Answer: D

14. Predict the output of the following code:
```
#include <stdio.h>
int main(void) {
    int if=10;
    printf("%d",if*if);
    return 0;
}
```

A) 10
B) Compiler error
C) 100
D) 0
Answer: B

15. Predict the value of the variable "count" at the end of program execution.

```c
#include <stdio.h>
void main()
{
   int count=100;
   {
        int count=10;
        printf("%d\t",count);
   }
   printf("%d",count);
}
```
A) 10   100
B) 100   10
C) 10   10
D) 100   100
Answer: A

Part – B (2 X 5 = 10 Marks)

16. Write the algorithm and C code to find the sum and average of five marks.

17. Rajesh is playing with a rectangular box (cuboid). He knows the length, width and height of the box. Help him to find the surface area of the box using a C program.
Hint: Surface area of a cuboid is 2lw + 2lh + 2wh