Department of Computer Science and Engineering   :Name

Institute of Technical Education & Research, SOA Deemed to be University   :Regd. No.

PSPD QUIZ-2024 (CSE 3941)

Programme: B.Tech.   Semester: 5th

Full marks: 10   Time: $\frac{1}{4}$ hours

Date: 30/09/2024   Quiz No.: 1

SET: A

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1. Which of the following is a correct way to declare a function that takes two integers and returns an integer?

   (A) int func(int, int);

   (B) int func(int a, int b);

   (C) int func();

   (D) Both a and b

2. What is the output of the following code?

```
#include <stdio.h>
    int main() {
        int a = 5++;
        if(a==6)
        printf("value of a is 6");
        else
        printf("value of a is 5");
        return 0;
    }
```

   Output: _____

3. Which of the following statements is true about the switch statement?

   (A) It can only evaluate integers.

   (B) The case labels must be unique.

   (C) It must always have default case.

   (D) Both B and C.

4. Which of the following correctly describes the behavior of the logical AND operator (&&) in C?

   (A) It returns true only if at least operands are true.

   (B) It returns true when both operands are false.

   (C) It returns false if both operands are true.

   (D) It returns true only if both operands are true.

5. What will be the value of A and B in the given expression?
   A = 2>5 ? 10 : 20;
   B= 2<5!=0 ? 5>8!=1 ? 10:20:30;

   (A) 20 10   (C) 20 30

   (B) 10 20   (D) None of these

6. What would be the output of following program?

```
#include <stdio.h>
  int main() {
     int a;
     char c;
     printf("%d%d%d%d",sizeof(a),sizeof(c),
                     sizeof('3'),sizeof(3));
  }
  *Hints: size of int = 4 bytes, size of
       character = 1 byte.
```

   (A) 4144   (C) 4114

   (B) 4444   (D) None of these

7. What is the output of the following program?

```
#include <stdio.h>
  int func(int x) {
     x = x + 20;
     return x;
  }
  int main() {
     int x = 10;
     func(x);
     printf("%d", x);
     return 0;
  }
```

   Output: _____

8. What will this code output?

```
#include <stdio.h>

    int main() {
       int i = 0;
       while (i < 20) {
           i++;
           if (i % 3 == 1)
             continue;
           if (i == 18)
             break;
           printf("%d ", i);
       }
     return 0;
    }
```

   Output: _____

9. What is the output of the following code?

```
#include <stdio.h>
    int main(){
       int result;
       result = 5 + 3 * 2 - 3 / 4 + 7 %
           3;
       printf("%d", result);
    }
```

   Output: _____

10. What is the output of the following code?

```
#include <stdio.h>
 int main(){
 int a = 1 > !5 && 5 == 2 - 3 + 6 || 5 > 3 > 1;
  if (a)
     printf("Welcome to ITER\n");
     printf("Welcome to the Dept. of CSE");
  else
     printf("Good luck");

  }
```

   Output: _____