

**Started on** Sunday, 24 September 2023, 1:45 PM

**State** Finished

**Completed on** Sunday, 24 September 2023, 3:02 PM

**Time taken** 1 hour 17 mins

**Grade** 15.00 out of 20.00 (75%)

Question 1

Correct

Mark 3.00 out of 3.00

Find the value of k on execution of the following program.

```
int i, k;
for (i = 0; i < 5; i++)
{
    switch (i % 5)
    {
        case 0: k = 0;
        case 1: k = 0;
        case 2: k += 2;
        default: k += 7;
    }
}
printf("%d", k);
```

- ☒ a. 32
- ☐ b. None of them
- ☐ c. 43
- ☐ d. 75
- ☐ e. 100
- ☐ f. 89



Your answer is correct.

The correct answers are:

43,

32

Question 2

Incorrect

Mark 0.00 out of 1.00

Find the output.

```
1. #include <stdio.h>
2. main()
3. {
4.   int n = 0, m = 0;
5.   if (n > 0)
6.   if (m > 0)
7.     printf("True");
8.   else
9.     printf("False");
10. }
```

- ☐ a. No output will be printed
- ☒ b. compilation error
- ☐ c. true
- ☐ d. false



Your answer is incorrect.

The correct answer is:

No output will be printed

Question **3**

Correct

Mark 2.00 out of 2.00

What is the output of the following code?

```
int x = 12;
```

```
if( x = 6 )
```

```
    printf( "%i", x );
```

- ☐ a. No output as printf statement is skipped
- ☐ b. Compilation Error
- ☐ c. 12
- ☒ d. 6



Your answer is correct.

The correct answer is:

6

Question 4

Correct

Mark 2.00 out of 2.00

Find the output.

```
1. #include <stdio.h>
2. int main()
3. {
4.     int n = 10, c;
5.     int a = 22;
6.     int b = 11;

7.     c = (-n) ? a : b;
8.     printf("%d", c);
9.     return 0;
10. }
```

- ☐ a. 11
- ☒ b. 22
- ☐ c. 21
- ☐ d. 11



Your answer is correct.

The correct answer is:

22

Question **5**

Correct

Mark 2.00 out of 2.00

What is the output?

```
int a=3;
```

```
switch(a)
```

```
{
```

```
    case 2: printf("CSE "); break;
```

```
    case default: printf("IT ");
```

```
}
```

- ☐ a. CSE
- ☒ b. Compiler error
- ☐ c. Blank screen (Nothing is printed)
- ☐ d. IT



Your answer is correct.

The correct answer is:

Compiler error

Question **6**

Incorrect

Mark 0.00 out of 1.00

Which of the following statement is correct for **switch** controlling expression?

- ☐ a. Both int and char can be used in "switch" control expression.
- ☒ b. Only int can be used in "switch" control expression.
- ☐ c. "switch" control expression can be empty as well.



Your answer is incorrect.

The correct answer is:

Both int and char can be used in "switch" control expression.

Question **7**

Correct

Mark 1.00 out of 1.00

Assuming correct syntax, find the output of the following program segment

```
int a=5, b=8;
if( a==5 && (b=9) )
{
    printf("Gorilla Glass=");
}
printf("%d %d", a, b);
return 0;
```

- ☐ a. 5 8
- ☐ b. Gorilla Glass=5 8
- ☐ c. 5 9
- ☒ d. Gorilla Glass=5 9



Your answer is correct.

The correct answer is:

Gorilla Glass=5 9

Question 8

Correct

Mark 2.00 out of 2.00

Assuming correct syntax, find the output of the following code segment

```
int a=5;

switch(a)
{
    case 0: printf("0 ");
    case 3: printf("3 ");
    case 5: printf("5 ");
    default: printf("RABBIT ");
}

a=10;

switch(a)
{
    case 0: printf("0 ");
    case 3: printf("3 ");
    case 5: printf("5 ");
    default: printf("RABBIT "); break;
}
```

- ☐ a. 0 3 5 RABBIT 0 3 5 RABBIT
- ☐ b. 5 RABBIT
- ☒ c. 5 RABBIT RABBIT
- ☐ d. 0 3 5 RABBIT RABBIT



Your answer is correct.

The correct answer is:

5 RABBIT RABBIT

Question 9

Correct

Mark 1.00 out of 1.00

Find the output

```
#include <stdio.h>
int main() {
    int a=9, b=5, c=8;
    if(!(a==9))
    {
        printf("Bear\n");
    }
    else
    {
        printf("Elephant  ");
    }
    printf("Fox");
    return 0;
}
```

☒ a. Elephant Fox

☐ b. Compiler error

☐ c. Fox



Your answer is correct.

The correct answer is:

Elephant Fox



Question **10**

Correct

Mark 1.00 out of 1.00

Find the output

```
#include <stdio.h>
int main()
{
    int a=9, b=6;
    if(a!=9 || b==6)
    {
        printf("Hockey\n");
    }
    else
    {
        printf("Cricket\n");
    }
    printf("Football");
    return 0;
}
```

- ☐ a. Cricket Football
- ☐ b. Football
- ☐ c. Cricket Hockey
- ☒ d. Hockey Football



Your answer is correct.

The correct answer is:

Hockey Football

Question **11**

Incorrect

Mark 0.00 out of 1.00

What would be returned by the following recursive function, if we call Sum(1,7)?

```
int Sum(int j, int k) {  
    if (j==k)  
        return (1);  
    else if (j>k)  
        return(0);  
    else  
        return (j+Sum(j+2, k));  
}
```

Select one:

- ☐ 1. 12
- ☒ 2. 11
- ☐ 3. 10
- ☐ 4. 9



The correct answer is: 10

Question **12**

Incorrect

Mark 0.00 out of 1.00

The nested ----- statements test for multiple cases

Answer: switch case



The correct answer is: if else

Question **13**

Incorrect

Mark 0.00 out of 1.00

**Two case constants within the same switch statement can have the same value**

Select one:

- ☒ True
- ☐ False

The correct answer is 'False'.

Question **14**

Correct

Mark 1.00 out of 1.00

The output of the following code is 789.

```
1. #include <stdio.h>
2. int main()
3. {
4.     int x = 0;
5.     if (x == 1)
6.     if (x == 0)
7.         printf("123\n");
8.     else
9.         printf("456\n");
10.    else
11.        printf("789\n");
12. }
```

Select one:

- ☒ True ✓
- ☐ False

The correct answer is 'True'.

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