C Question Set

***Question 1***

What is the output of the following program?

#include<stdio.h>

int main()

{

printf(“%d”, -1-1-1);

return 0;

}

***Question 2***

What is the output of the following program?

int main()

{

int a = 10;

int b, c;

b = a++;

c = a;

printf(“%d %d %d”, a, b, c);

return 0;

}

***Question 3***

What’s the difference between these 2 statements?

#include<stdio.h>

#include “stdio.h”

***Question 4***

What library does sizeof() belong to?

***Question 5***

What would happen in the following code snippet? Provide a suitable reason for such an action to occur.

for(int i = 0 ; ; i=(i+1)%2)

{

printf(“%d\n”, i);

}

***Question 6***

Debug the following code to find factorial of the number using Recursion

int f=0;

int Fact(int d)

{

if(d>1)

{

f=f\*d;

return(Fact(d-1));

}

else

return f-1;

}

***Question 7***

Pick the odd one out:

1. \*
2. \*\*
3. &
4. /

***Question 8***

What is the output of the following code snippet?

int i = 1, j = 10;

do

{

if(i++ > --j)

{

continue;

}

} while (i < 5);

printf(“%d %d”, i, j);

***Question 9***

What are the differences between malloc and calloc? (Be as brief as possible)

***Question 10***

Write the output of the following snippet:

int x, y, res;

x = 200 , y = 1000;

res = x+y>2000 ? 5000-x : 2000+x+y;

printf(“%d”, res);

***Question 11***

What is the output of the following program?

int main()

{

int a=1;

switch(a)

{

case 1:

cout<<”One”;

case 2:

cout<<”Two”;

case 3:

cout<<”Three;”

default:

break;

}

}

***Question 12***

Which of the following is an invalid variable name?

1. abc123
2. a\_bc12
3. \_abc123
4. 1abc23

***Question 13***

Rewrite the code snippet removing all the errors. Marks will not be awarded if a correct line is rewritten differently. (Do not change lines that may throw a warning either, only errors)

#include<stdio.h>

int main()

{

printf(“Enter a number”);

Int a;

scanf(“%d”, a);

int b = 23;

double c = a+b;

printf(“%f”, c);

return 0;

}

***Question 14***

What is the output to the following code snippet? If there’s any error, explain the error.

int\* greater(int a, int b)

{

if(a>b)

return &a;

else

return &b;

}

int main()

{

int a=10,b=8;

int\* c=greater(a,b);

printf(“%d”, \*c);

return 0;

}

***Question 15***

Write a program to find the HCF of given 2 numbers. The more efficient the program, the more the marks will be given.

***Question 16***

What does the following function do?

int a(int\* b, int l){

if(!l)

return 0;

return b[0]+a(b+1, l-1);

}

***Question 17***

What is the output of the following program?

int main()

{

int t=10;

while(t--)

printf(“%d”, t);

return 0;

}

***Question 18***

What is the output of the following program?

int main()

{

printf(“%d”, 1 && 0 && 3);

return 0;

}

***Question 19***

What is the output of the following program?

int main()

{

printf(“\”Codewars!\””);

return 0;

}

***Question 20***

Find the odd one out. (There maybe different solutions with different perspectives, write your perspective that supports your solution)

1. auto
2. register
3. extern
4. static

***Question 21***

Complete the sequence -

2,9,28,65, 126, \_\_\_\_\_?

(A) 187

(B) 217

(C) 242

(D) 344

(E) 355

***Question 22***

|  |  |
| --- | --- |
| A clock is started at noon. By 10 minutes past 5, the hour hand has turned through | |
| A. 155° | B. 145° |
| C. 152° | D. 140° |

***Question 23***

If 5@6=61 and 8@10=164, then 7@9=?

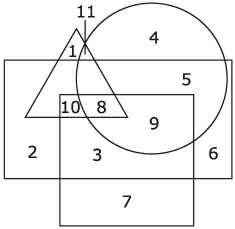
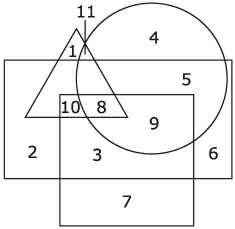
1. 125
2. 63
3. 130
4. 32
5. 95

***Question 24***

Two pipes can fill a tank in 12 minutes and 20 minutes respectively. Both pipes are opened together and after some time the first pipe is closed and the tank is full in totally 10 minutes. For how many minutes was first pipe open?

1. 8 minutes
2. 6 minutes
3. 7 minutes
4. 10 minutes

***Question 25***



These questions are based on the figure given above in which (1) Rectangle represents Males, (2) Circle represents the urbans (3) Square represents the educated and (4) Triangle represents the civil servants.  
  
The number indicating the uneducated urban males is



1. 4
2. 5
3. 7
4. 11

***Question 26***

There are 12 balls, all of them look identical but one of them is slightly heavier than the rest. You have a weight balance. What is the least number of times you need to use the balance to find the heavier ball ?

***Question 27***

You’ve got someone working for you for seven days and a gold bar to pay them. You must pay the worker for their work at the end of every day. If you are only allowed to make two breaks in the gold bar, how do you pay your worker? (Assuming equal amount of work is done during each day thus requiring equal amount of pay for each day)

***Question 28***

Last day of a century can never be a -

1. Monday
2. Tuesday
3. Wednesday
4. Friday

***Question 29***

Provide an algorithm to find the HCF of 2 numbers, more efficient algorithm carries more points.

***Question 30***

A 100-seater flight is about to take off. Each of the 100 passengers are waiting to enter, holding a ticket corresponding to their seat number. You are last in line, the 100th. One of the people in front of you is crazy (but you don't know which one) and will sit in a random empty seat (which might even be his assigned seat). The other passengers will continue to sit in their seats, unless it is already occupied, in which case they go crazy too and sit in a random empty seat. Assuming they don't behave like your typical crowd and get in one by one without a stampede, what is the probability that you'll sit in your assigned seat?