SUNBEAM
Exploring New Ideas Reaching New Heights

1.

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

A. 10
B. 9
C. 11
D. none of the above
Answer: B

2.

```
#include <stdio.h>
void f();
int main()
{
    int a=10;
    a = f();
    printf("%d", a);
    return 0;
}
void f()
{
    printf("Hi");
}
```

A. Error:function f does not return any value so we can not catch in variable a.
B. Hi
C. 10
D. Hi 10
Answer :A

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3.

```
#include <stdio.h>
int reverse(int);
int main()
{
    int no=5;
    reverse(no);
    return 0;
}
int reverse(int no)
{
    if(no == 0)
        return 0;
    else
        printf("%d,", no);
    return reverse (no--);
}
```

A. 5 4 3 2 1
B. 4 3 2 1 0
C. infinite loop
D. run time error (exit value other than 0)
Answer: D

4.

```
#include <stdio.h>
int func(int i)
{
    if(i%2) return 0;
    else return 1;
}
int main()
{
    int i=3;
    i=func(i);
    i=func(i);
    printf("%d", i);
    return 0;
}
```

A. 3
B. 1
C. 0
D. 2
Answer :B

5.
```c
#include <stdio.h>
void swap(int x, int y);
int main()
{
    int a=1, b=10;
    swap(a,b);
    printf("\n%d %d", a,b);
}
void swap(int x, int y)
{
    x = x ^ y;
    y = x ^ y;
    x = x ^ y;
}
```

A. 1 1
B. 1 10
C. 10 1
D. None of these
Answer :B

6.
```c
#include <stdio.h>
int main()
{
    static int x=10;
    printf("%2d",x-=2);
    if(x)
        main();
    return 0;
}
```

A. 10101010
B. 8 6 4 2 0
C. stack overflow
D. 8
Answer: B

7.

```c
#include <stdio.h>
int sumdig(int);
int main()
{
    int a, b;
    a = sumdig(123);
    printf("a = %d", a);
    return 0;
}
int sumdig(int n)
{
    int s, d;
    if(n!=0)
    {
        d = n%10;
        n = n/10;
        s = d+sumdig(n);
    }
    else
        return 0;
    return s;
}
```

A. 4
B. 3
C. 6
D. 12
Answer :C

8.

```c
#include <stdio.h>
void fun(char*a);
```

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```
int main()
{
    char a,b,c,d;
    a = 'A'; b = 'B';
    c = 'C'; d = 'D';
    fun(&a);
    return 0;
}
void fun(char *a)
{
    a++;
    printf("%c", *a);
    a++;
    printf("%c", *a);
    return;
}
```

A. BC
B. AB
C. CD
D. No output
Answer :A

9.

```
#include<stdio.h>
int main(void)
{
    int x=10;
    static int y=x;
    printf("Y is %d",y);
    return 0;
}
```

A. 0
B. 1
C. Compile time error
D. 2
Answer: C

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10. Consider the following code

```
#include<stdio.h>
extern int s;
int t;
static int u;
int main()
{   return 0;
}
```

Which variables s, t and u cab be available to a function present in another file?

A. Only u
B. s & u
C. s, t, u
D. t & s

Answer :D

11.

```
#include<stdio.h>
int main()
{
    static int a;
    printf("%d", a --);
    return 0;
}
```

A. 0
B. 1
C. 2
D. 3

Answer :A

13. Identify the incorrect statement

1. Automatic variables are automatically initialized to 0
2. Static variables are automatically initialized to 0
3. The address of a register variable is not accessible
4. Static variable cannot be initialized with local variable.

A. 1
B. 1,2
C. 2,3
D. 4

Answer :A

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13.

```
#include<stdio.h>
int f(int n)
{
    static int i = 1;
    if (n >= 5)
        return n;
    n = n+i;
    i++;
    return f(n);
}
int main(void)
{
    int y=f(1);
    printf("%d",y);
    return 0;
}
```

A. 1
B. 2
C. 6
D. 7
Answer: D

14.

```
#include<stdio.h>
int n = 5;
int main()
{
    fun();
    fun();
    return 0;
}
int fun()
{
    static int n = 2;
    printf("%d ",n);   n++;
    return 0;
}
```

A. 5 6
B. 5 5
C. 2 2
D. 2 3
Answer :D

15.
What is the meaning of using extern before declaration ?
For example following function sum is made extern

```
extern int subtract(int x, int y, int z)
{
    return (x + y + z);
}
```

A. Function is made globally available
B. extern means nothing ,subtract() is same without extern keyword in function.
C. Function need not to be declared before its use
D. Function is made local to the file.
Answer :B

16.

```
#include<stdio.h>
int main(void)
{
    extern int i;
    printf("%d ", i);
    {
        int i = 10;
        printf("%d ", i);
    }
    return 0;
}
```

A. 10 10
B. 0 0
C. 0 10
D. Compile time error
Answer: D