1. # include <stdio.h>

```
void fun(int x)
{
    x = 30;
}
int main()
{
    int y = 20;
    fun(y);
    printf("%d", y);
    return 0;
}
```

- a. 30
- b. 20
- c. Compile Time Error
- d. Run time error

9.

```
# include <stdio.h>
void fun(int *ptr)
{
    *ptr = 30;
}

int main()
{
    int y = 20;
    fun(&y);
    printf("%d", y);

return 0;
}
```

- a. 20
- b. 30
- c. Compile time error
- d. Runtime error

10.

```
#include <stdio.h>

int main()
{
   int i = 1024;
   for (; i; i >>= 1)
   printf("SVES");
   return 0;
}
```

How many times SVES be printed in the above program

- a. 10
- b. 11
- c. Infinite
- d. Compile Time Error

11.

```
#include <stdio.h>
int main()
{
int i;
if (printf("0"))
        i = 3;
else
        i = 5;
printf("%d", i);
return 0;
}
```

What will be the output of above program

- a. 3
- b. 5
- c. 03
- d. 05

12.

```
#include<stdio.h>
int main()
{
  int n;
  for (n = 9; n!=0; n--)
  printf("n = %d", n--);
  return 0;
}
```

- a. 97531
- b. 987654321
- c. Infinite Loop
- d. 9753

13.

Output?

```
#include <stdio.h>
int main()
{
int c = 5, no = 10;
do {
no /= c;
    } while(c--);

printf ("%d\n", no);
return 0;
}
```

- a. 1
- b. Runtime Error

c.	0
d.	Compile Time Error
14. Whic	ch one of the following is an application of Queue Data Structure?
a. When	a resource is shared among multiple consumers.
b. When processe	data is transferred asynchronously (data not necessarily received at sames

- chronously (data not necessarily received at same rate as sent) between two
- c. Load Balancing
- d. All the above

- 14. Which of the following is true about linked list implementation of stack?
- a. In push operation, if new nodes are inserted at the beginning of linked list, then in pop operation, nodes must be removed from end.
- b. In push operation, if new nodes are inserted at the end, then in pop operation, nodes must be removed from the beginning.
- C. Both the above
- d. None
- 16. Which one of the following is an application of Stack Data Structure?
- a. Managing function calls
- b. The stock span problem
- c. Arithmetic expression evaluation
- d. All the above
- 17. Consider a B+-tree in which the maximum number of keys in a node is 5. What is the minimum number of keys in any non-root node?
- a. 1

C. 3	3	
d. 4	4	
20. Which of the following abstract data types can be used to represent a many to many relation?		
	A .Tree	
	B. Plex	
	C.Graph	
	D. Both (b) and (c)	

b. 2