

Ittiam Technical Paper Questions

1. If you are given a C program like this

```
Unsigned short int i, j=1;  
for (i=0,i<10,i++)  
if(i&j)  
printf(ITTIAM);
```

Tell how many times is Ittiam printed.

Ans It is printed 5 times.

2. Go through the function conv() given below

```
conv(int t)  
{  
int u;  
u=5/9 * (t-32);  
return(u);  
}
```

You need to tell What is returned

(a) 15 (b) 0 (c) 16.1 (d) 29

3. $f=100$ khz $f_s=125$ khz

Tell O/p of filter with cutoff 150khzs

4. What does the following function print?

```
func(int i)  
{  
if(i%2)return 0;  
else return 1;  
}  
main()  
{  
int =3;  
i=func(i);
```

```
i=func(i);  
printf("%d",i);  
}
```

(a) 3 (b) 1 (c) 0 (d) 2

5. Tell the use of stack in a processor:

- a. it is used as function call
- b. it is used for unlimited function call
- c. used as a local variable

7. $SER=10^{-4}$ the BER of a QPSK

- a =SER
- b \leq SER
- c \geq SER
- d =SER/2

Ans \geq SER

8. What will an ideal LPF will be:

- a. it will be causal
- b. it will be non causal
- c. it will be non stable
- d. none

Ans: non causal.

9. $y(t)=y(t-1)+0.1x(n)$ is ----- type of filter. Fill in the blank.

10. What will be the equivalent pointer expression for referring the same element $a[i][j][k][l]$?

- $a[i] == *(a+i)$
- $a[i][j] == (*(a+i)+j)$
- $a[i][j][k] == (*(a+i)+j)+k)$

$a[i][j][k][l] == (*(a+i)+j)+k)+l$