

# Model Subex Technical Questions

Technical Skills Test :

1. What will be the output of the following program?

Note: Space is represented by 0.

```
int main(int argc,char *argv[])
{
char *s=Hello,world;printf("%10s,s);
}
```

- a) Hello,world0000000000
- b) Hello,world
- c) 0000000000Hello,world
- d) Hello,world

ans: d

2. In the below program the getNewString function is defined and it returns a character pointer. This function is called from main function as defined below. What will be the output of this program?

```
char *getNewString( )
{static char xxx[1024];return xxx;}
main( )
{
char g[]=First;char *p;strcpy(getNewString( ),g);
p=getNewString( );
strcpy(p,Second);
printf(The string is : %s,getNewString( ));
}
```

- a) The string is : First
- b) The string is : FirstSecond
- c) The string is
- d) Unknown, since the scope of the pointer is local

ans: c

3. What will be output of the following recursive program?

```
void printme(int *p)
{int q=*p;if(*p>0)
{q=*(p);printme(p);}printf(%d,q);}void main(void)
{int x[5]={0,16,12,8,1};
printme(&x[4]);}
```

- a) 0,0,1,2,3,
- b)4,8,12,16,0,
- c) Error cannot pass elemenpointer
- d) 0,16,12,8,4

4. What is the output of the following line in 32-bit OS?

```
printf(%d%dn,sizeof(a),sizeof(a));
```

- a) 4,2

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- b) 1,1
- c) 1,2
- d)2,2

5. What is the output of following program?

```
#include
#include
main( )
{char str[]=Welcome to Subex Systems;
char *ptr;
ptr=strtok(str, );
while(ptr) ptr=strtok(NULL, );
printf("%sn,str);}
```

- a) Welcome to Subex Systems
- b) Error, since NULL is passed to strtok
- c) NULL
- d) Welcome

6. Study the program below and predict the output

```
#include
int compute(int (*)(int),int);
int cube(int);
main( )
{printf("%dn,compute(cube,4));}
/* no syntax errors pleasehave fun!!*/
int compute(int(*f),int in)
{int res=0,i;for(i=1;i<=in;i++);res+=(*f)(i);return(res);}
int cube(int n)
{return (n*n*n);}
```

- a) 150
- b) 64
- c) 125
- d)225

7. The output of the following program is

```
#include
main( )
{
int i=-1;while(i<5)
{
#ifdef _X_printf(%d,i++);#endif
}
}
```

- a) Compiler error
- b) -1,0,1,2,3,4,
- c) Infinite loop

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d) 1,2,3,4,

8. The output of the following program is

```
#include
void f(char* p);
main( )
{
char *p=(char*)1;f(p);printf("%sn,p);
}
void f(char *p)
{
char sz[]=hello;p=sz;
}
```

- a) Runtime error
- b) NULL
- c)hello
- d) Compiler error

9. The output of the following program is

```
#includestdio.h>
void f(char **p)
{
char *sz=hello;*p=sz;
}
main( )
{
char *p=NULL;f(&p);printf("%sn,p);
}
```

- a) Compiler error
- b) Runtime error
- c) hello
- d) 1

10. The output of the following program is

```
#include
main( )
{
int n;if(n<=-1)
{
int x=1else
{
int x=1;
}a) Compiler error b) Unpredictable output c) 10 d) 1
```

11. The correct declaration of a pointer func to function returning a char and taking no parameters is

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- a) char func( ) \* func;
- b) char (\*func)( );
- c) char\* ( ) func;
- d) None of the above

12. The output of the following program is

```
#include  
#define arbit 5  
main( )  
{  
printf("%dn,arbit  
}
```

- a) 5
- b) 6
- c) Compiler error
- d) Runtime error

13. Determine which of the following are valid identifiers

- i. Return
  - ii. 123 45 6789
  - iii. Record\_1
  - iv. \$Tax
- a) iii & iv
  - b) i & iii
  - c) i,ii & iv
  - d) i & iv

14. The output of the following program is

```
#include  
struct x {int a; char *b;} *p;  
main( )  
p=(struct x*) 100;  
printf("%d,%d,%dn,p,p+1,&p[2]);
```

- a) 100,108,116
- b) Compilation error
- c) 100,104,108
- d) 100,103,106

15. What is the output of the following?

```
main( )  
int a[5]={5,1,15,20,25};  
int i=1;  
printf(n%d%d,a++,a[++i]);
```

- a) 2,16
- b) 1,15
- c) 1,20
- d) 2,1

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16. What is the output of the following

```
main( )  
int a[5]={5,1,15,20,25};  
int i=1;  
printf(n%d%d,a,a[i++]);
```

- a) 2,16
- b) 1,15
- c) 1,20
- d) 2,16

16. static float table [2][3]={{1,1,1,2,1,3},{2,1,2,2,2,3}};What is the value of  $*(*(table)+1)+1$ ?

- a) 2,2
- b)1,2
- c) 2,1
- d) 2,3

17. What is the output of the following program?

```
#include  
main( )  
int i,j,x=0;  
for(i=0;i<5;++i)  
for(j=0;j  
x+=(i+j-1);  
printf("%d,x);  
break;
```

- a) 1
- b) 0
- c) 2
- d) None of the above

18. Consider the following

i. Pointer to a function that accepts 3 integer arguments and returns a floating-point quantity

```
float(8pf)(int a, int b,int c)
```

ii. Pointer to a function that accepts 3 pointers to integer quantities as arguments an returns a pointer to a floating-point quantity

```
float *(*pf)(int *a,int *b,int *c);
```

- a) i is true, ii is true
- b) i is true,ii is false
- c) i is false, ii is false
- d) i is false, ii is true

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19. Consider the following statements

- i. An integer quantity can be added to or subtracted from a pointer variables.
- ii. Two pointer variables can be added.
- iii. A pointer variable can be multiplied by a constant
- iv. Two pointer variables of same type can be subtracted.

- a) Only ii & iv are true
- b) Only iii is false
- c) Only ii is false
- d) Only i & ii are true

20. If p is a pointer ,what does p mean?

- a) Same as  $*(p+i)$
- b) Same as  $*(p+i)$
- c) Same as  $*p+i$
- d) None of the above