

HCL Verbal Ability Questions 2015

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Q1. Which of the following about the following two declaration is true?

i) `int *F()`
ii) `int (*F)()`

- a) Both are identical
- b) The first is a correct declaration and the second is wrong
- c) The first declaration is a function returning a pointer to an integer and the second is a pointer to function returning int
- d) Both are different ways of declaration pointer to a function

ANS: c

Q2. What are the values printed by the following program?

```
#define dprint(expr) printf("#expr \"%dn\",expr)
main()
{
int x=7;
int y=3;
dprintf(x/y);
}
```

- a) #2 = 2
- b) expr=2
- c) x/y=2
- d) none

ANS: c

Q3. Which of the following is true of the following program

```
main()
{
char *c;
int *p;
```

```
c=(char *)malloc(100);
ip=(int *)c;
free(ip);
}
```

ANS: The code functions properly releasing all the memory allocated.

Q4. What is the output of the following program?

```
main()
{
int i;
char *p;
i=0X89;
p=(char *)i;
p++;
printf("%xn",p);
}
```

ANS: 0X8A

Q5. Which of the following is not a ANSI C language keyword?

ANS: Function.

Q6. When an array is passed as parameter to a function, which of the following statement is correct choice:

- a) The function can change values in the original array
- b) In C parameters are passed by value. The function cannot change the original value in the array
- c) It results in compilation error when the function tries to access the elements in the array
- d) Results in a run time error when the function tries to access the elements in the array

ANS: a

Q7. The type of the controlling expression of a switch statement cannot be of the type

- a) int
- b) char
- c) short
- d) float
- e) none

ANS: d) float

Q8. What is the value of the expression $(3^6) + (a^a)$?

- a) 3
- b) 5
- c) 6
- d) a+18
- e) None

ANS: 5

**Q9. What is the value assigned to the variable X if b is 7 ?
 $X = b > 8 ? b < 3 : b > 4 ? b >> 1 : b;$**

- a) 7
- b) 28
- c) 3
- d) 14
- e) None

ANS: c) 3

Q10. Which is the output produced by the following program

```
main()
{
int n=2;
printf("%d %dn", ++n, n*n);
}
```

- a) 3,6
- b) 3,4
- c) 2,4
- d) cannot determine

ANS: b) 3,4

Q11. What is the output of the following program?

```
int x= 0x65;
main()
{
char x;
printf("%dn",x)
}
```

- a) compilation error
- b) A
- c) 65
- d) unidentified

Q12. What is the output of the following program

```
main()
{
int a=10;
int b=6;
if(a=3)
b++;
printf("%d %dn",a,b++);
}
```

- a) 10,6
- b)10,7
- c) 3,6
- d) 3,7
- e) none

ANS: d) 3,7

Q13. What can be said of the following program?

```
main()
{
enum Months {JAN =1,FEB,MAR,APR};
Months X = JAN;
if(X==1)
{
printf("Jan is the first month");
}
}
```

- a) Does not print anything
- b) Prints : Jan is the first month
- c) Generates compilation error
- d) Results in runtime error

ANS: b) Prints : Jan..

Q14. What is the output of the following program?

```
main()
{
char *src = "Hello World";
char dst[100];
strcpy(src,dst);
printf("%s",dst);
}strcpy(char *dst,char *src)
{while(*src) *dst++ = *src++;
}
```

- a) Hello World
- b) Hello
- c)World
- d) NULL
- e) unidentified

ANS: d) NULL

Q15. What is the output of the following program?

```
main()
{
int l=6;
switch(l)
{ default : l+=2;
case 4: l=4;
case 5: l++;
break;
}
printf("%d",l);
}
```

- a) 8
- b) 6
- c) 5

- d) 4
- e) none

ANS: 5

Q16. What is the output of the following program?

```
main()
{
int x=20;
int y=10;
swap(x,y);
printf("%d %d",y,x+2);
}
swap(int x,int y)
{
int temp;
temp =x;
x=y;
y=temp;
}
```

- a)10,20
- b) 20,12
- c) 22,10
- d)10,22
- e) none

ANS: d)10,22

Q17. What is the output of the following problem ?

```
#define INC(X) X++
main()
{
int X=4;
printf("%d",INC(X++));
}
```

- a) 4
- b) 5
- c) 6
- d) compilation error
- e) run time error

ANS: d) compilation error

Q18. What can be said of the following

```
struct Node {  
    char *word;  
    int count;  
    struct Node left;  
    struct Node right;  
}
```

- a) Incorrect definition
- b) structures cannot refer to other structure
- c) Structures can refer to themselves. Hence the statement is OK
- d) Structures can refer to maximum of one other structure

ANS: c

Q19. What is the size of the following union. Assume that the size of int =2, size of float =4 and size of char =1.

```
Union Tag{  
    int a;  
    float b;  
    char c;  
};
```

- a) 2
- b) 4
- c) 1
- d) 7

Q20. What is the output of the following program? (. has been used to indicate a space)

```
main()  
{  
    char s[]="Hello,.world";  
    printf("%15.10s",s);  
}
```

- a) Hello,. World
- b) Hello,. World
- c) Hello,. World.
- d) None of the above