Amazon Technical Question Paper

Q1. Write a program which employs Recursion

Q2. Write a program to generate the Fibonacci series.

Q3. Which bitwise operator is suitable for checking whether a particular bit is on or off?

Q4. Write a C program which when compiled and run, prints out a message indicating whether the compiler that it is compiled with *allows /* */ comments* to nest.

Q5. You are given a singly link-list such that each node of this list is also a head of another link list of the same type:

```
struct node {
void *data; /* could be anything */
struct node *next;
struct node *down;
```

Describe an algorithm for flattening the list.

Q6. Find the output

```
int c[ ]={2.8,3.4,4,6.7,5};
int j,*p=c,*q=c;
for(j=0;j<5;j++) {
printf(" %d ",*c);
++q; }
printf(" %d ",*p);
++p; }
```

ANS: 2 2 2 2 2 2 3 4 6 5

Q7. Find the output of the Program?

```
char s[]={a,b,c,c,};
char *p,*str,*str1;
```

```
p=&s[3];
str=p;
str1=s;
printf("%d",++*p + ++*str1-32);
```

Q8. Find the error in the following program?

```
struct xx
int x=3;
char name[]="hello";
struct xx *s;
```

ANS: compiler error

Q9. Find the output of the Program?

```
#include
struct xx
int x;
struct yy
char s;
struct xx *p;
struct yy *q;
```

Q10. A default catch block catches

A. all thrown objects
B. no thrown objects
C. any thrown object that has not been caught by an earlier catch block
D. all thrown objects that have been caught by an earlier catch block

ANS: C

Q11. The standard input stream, which refers to the keyboard, is called

A. cin
B. cout
C. stin

D. stout

E. None of the above

Q12. When a break statement is used in a loop, the control skips the rest of the statements in the loop after it and jumps

A. to the last lines in the program

B. to the next statement written after the body of the loop

C. to the first statement in the body of the loop

D. All. of the above

E. None of the above

Q13. When two types are used in a function template and one is labeled T, the other

A. must also be named T

B. must be named U

C. can be any legal C++ identifier

D. it is illegal to have two types

Q14. The continue statement is used to

A. permit two different expressions to appear in situations where only one expression would ordinarily be used

B. terminate loops or to exit from a switch

C. alter the normal sequence of program execution by transferring control to some other part of the program

D. All of the above

E. None of the above

Q15. What will be the content of file.c after executing the following program?

```
int main()
FILE *fp1, *fp2;
fp1=fopen("file.c", "w");
fp2=fopen("file.c", "w");
fputc(A, fp1);
fputc(B, fp2);
return 0;
```

A. B
B. A, B
C. B, B
D. Error in opening file file1.c

ANS: A

Q16. What will be the output of the program ?

```
int main()
float a=3.15529;
printf("%2.1f ", a);
return 0;
```

A. 3.00
B. 3.15
C. 3.2
D. 3

Q17. Which of the following statement is correct about the program?

```
int main()
FILE *fp;
char str[11], ch;
int i=0;
fp = fopen("INPUT.TXT", "r");
if(ch ==    || ch == )
printf("%s", str);
}
else
```

```
str[i++]=ch;
}
fclose(fp);
return 0;
```

A. The code writes a text to a file
B. The code reads a text files and display its content in reverse order
C. The code writes a text to a file in reverse order
D. None of above

Q18. What function should be used to free the memory allocated by calloc()?

A. dealloc();
B. malloc(variable_name, 0)
C. free();
D. memalloc(variable_name, 0)

Q19. What will be the output of the program?

```
int main()
char *s;
char *fun();
s = fun();
printf("%s ", s);
return 0;
char *fun()
char buffer[30];
strcpy(buffer, "RAM");
return (buffer);
```

A. 0xffff
B. Garbage value
C. 0xffee
D. Error

Q20. The generic type in a template function

A. must be T
B. can be T

C. cannot be T for functions you create, but may be for C++s built-in functions
D. cannot be T

Q21. Predict the error in the following program:

int main()
void v = 0;
printf("%d", v);
return 0;

A. Error: Declaration syntax error v (or) Size of v is unknown or zero.
B. Program terminates abnormally.
C. No error.
D. None of these.

Q22. Which of the following statements mentioning the name of the array begins DOES NOT yield the base address?

1: When array name is used with the sizeof operator.
2: When array name is operand of the & operator.
3: When array name is passed to scanf() function.
4: When array name is passed to printf() function.

A. A
B. A, B
C. B
D. B, D

Q23. Which of the following statements are correct about 6 used in the program?

int num[6];
num[6]=21;

A. In the first statement 6 specifies a particular element, whereas in the second statement it specifies a type.
B. In the first statement 6 specifies a array size, whereas in the second statement it specifies a particular element of array.
C. In the first statement 6 specifies a particular element, whereas in the second statement it specifies a array size.

D. In both the statement 6 specifies array size.

Q24. Format flags may be combined using

A. the bitwise OR operator (|)
B. the logical OR operator (||)
C. the bitwise AND operator (&)
D. the logical AND operator (&&)

Q25. Programmer-defined functions can be

A. value-returning functions only
B. void functions only
C. either value-returning or void functions