

1. When we use the case control structure?
  - a. **To choose one from multiple alternatives**
  - b. To switch from one instruction to another
  - c. To make the execution fast
  - d. None of the above
2. Recursion is sometimes called?
  - a. **Circular definition**
  - b. Complex definition
  - c. Procedure
  - d. Union
3. Given the statement, `maruti.engine.bolts = 25`. Which of the following is true?
  - a. Structure bolts is nested within structure engine
  - b. **Structure engine is nested within structure maruti**
  - c. Structure maruti is nested within structure engine
  - d. Structure maruti nested within structure bolts
4. The statement that transfer control to the beginning of the loop is called?
  - a. break statement
  - b. exit statement
  - c. **continue statement**
  - d. goto statement
5. If an array is used as function argument, the array is passed?
  - a. by value
  - b. **by address**
  - c. by name
  - d. the array cannot be used as function argument

6. What will be the output?

```
#include<stdio.h>
int main( )
{
    int k=35;
    printf("%d%d%d",k==35,k=50,k>40);
}
```

- a. 35,50,40
- b. **0,50,0**
- c. 0,0,0
- d. 1,1,1

7. What will be the output of following program ?

```
#include<stdio.h>
void main( )
{
    int i;
    for(i=1;i<=5;printf("%d",i));
        i++;
}
```

- a. Error
- b. Garbage values
- c. 1 to 5
- d. **Infinite loop**

8. Which of the following is false in C?

- a. Keywords cannot be used as variable names
- b. **Variable names can contain a digit**
- c. Variable names do not contain a blank space
- d. Capital letters can be used in variable names

9. Null pointer and UN-initialized pointers are same?

- a. True
- b. **False**
- c. Varies from program to program
- d. None of Above

10. Null pointer is?

- a. **A pointer which does not point anywhere**
- b. Pointer defined with name Null
- c. A pointer that returns 0 values
- d. None of Above

11. The function \_\_\_\_\_ obtains block of memory dynamically.

- a. Calloc
- b. Malloc
- c. **Both a & b**
- d. Free

12. void \* malloc(size\_t n) returns

- a. Pointer to n bytes of uninitialized storage
- b. NULL if the request cannot be satisfied
- c. Nothing
- d. **Both a & b are true**

**13. Which among the following is the correct syntax to declare a static variable register?**

- a. static register a;
- b. register static a;
- c. Both (a) and (b)
- d. **We cannot use static and register together.**

**14. Which of the following is true for static variable?**

- a. It can be called from another function.
- b. **It exists even after the function ends.**
- c. It can be modified in another function by sending it as a parameter.
- d. All of the mentioned

**15. Which of the following can never be sent by call-by-value?**

- a. Variable
- b. **Array**
- c. Structures
- d. Both (b) and (c)

**16. Which type of variables can have same name in different function:**

- a. global variables
- b. static variables
- c. Function arguments
- d. **Both (b) and (c)**

**17. The syntax for constant pointer to address (i.e., fixed pointer address) is:**

- a. const <type> \* <name>
- b. **<type> \* const <name>**
- c. <type> const \* <name>
- d. Both (a) and (c)

**18. What is the problem in the following declarations?**

```
int func(int);  
double func(int);  
int func(float);
```

- a. A function with same name cannot have different signatures
- b. A function with same name cannot have different return types
- c. A function with same name cannot have different number of parameters
- d. **All of the mentioned**

**19. Which of the following are themselves a collection of different data types?**

- a. String
- b. **Structures**
- c. Char
- d. All of the mentioned

**20. Which of the following cannot be a structure member?**

- a. Another structure
- b. Function**
- c. Array
- d. None of the mentioned

**21. The correct syntax to use typedef for struct is.**

- a. typedef struct temp  
    {  
        int a;  
    }TEMP;
- b. typedef struct  
    {  
        int a;  
    }TEMP;
- c. struct temp  
    {  
        int a;  
    };  
    typedef struct temp TEMP;
- d. All of the mentioned**

**22. Which of the following is FALSE about typedef?**

- a. typedef follow scope rules
- b. typedef defined substitutes can be redefined again. (Eg: typedef char a; edef int a;)**
- c. You cannot typedef a typedef with other term.
- d. All of the mentioned

**23. Which of the following is not possible?**

- a. A structure variable pointing to itself
- b. A structure variable pointing to another structure variable of same type
- c. 2 different type of structure variable pointing at each other.
- d. None of these**

**24. What will be the output of the following code?**

```
#include "stdio.h"
#include "string.h"
void main(){
    char *str=NULL;
    strcpy(str,"cquestionbank");
    printf("%s",str);
}
```

- a. cquestionbank
- b. cquestionbank\0
- c. (null)**
- d. Compilation error

**25. What will be output if you will compile and execute the following c code?**

```
#define max 5;
void main(){
    int i=0;
    i=max++;
    printf("%d",i++);
}
```

- a. 5
- b. 6
- c. 7
- d. Compiler error**

**26. What will happen if in a C program you assign a value to an array element whose subscript exceeds the size of array?**

- a. The element will be set to 0.
- b. The compiler would report an error.
- c. The program may crash if some important data gets overwritten.**
- d. The array size would appropriately grow.

**27. In C, if you pass an array as an argument to a function, what actually gets passed?**

- a. Value of elements in array
- b. First element of the array
- c. Address of the last element of array
- d. Base address of the array**

**28. How can I dynamically allocate a two-dimensional array?**

- a. `int **array1 = (int **)malloc(nrows * sizeof(int *));`  
`for(i = 0; i < nrows; i++)`  
`array1[i] = (int *)malloc(ncolumns * sizeof(int));`
- b. `int **array2 = (int **)malloc(nrows * sizeof(int *));`  
`array2[0] = (int *)malloc(nrows * ncolumns * sizeof(int));`  
`for(i = 1; i < nrows; i++)`  
`array2[i] = array2[0] + i * ncolumns;`
- c. `int *array3 = (int *)malloc(nrows * ncolumns * sizeof(int));`
- d. Any of the above.

**29. A recursive function would result in infinite recursion, if the following were left out:**

- a. **Base case**
- b. Recursive call
- c. Subtraction
- d. Local variable declarations

**30. Which of the following provides conceptual support for function calls?**

- a. **The System Stack**
- b. The Data Segment
- c. The heap
- d. The processor's register

**31. For 'C' Programming Language**

- a. Constant expressions are evaluated at compile time
- b. String constants can be concatenated at compile time
- c. Size of array should be known at compile time
- d. **All of these**

**32. If storage class is missing in the array definition, by default it will be taken to be**

- a. Automatic
- b. External
- c. Static
- d. **Either automatic or external depending on the place of occurrence**

**33. What will be the output of the following statement?**

```
printf( 3 + "goodbye");
```

- a. goodbye
- b. odbye
- c. bye
- d. **dbye**

**34. It is necessary to declare the type of a function in the calling program if**

- a. the function returns an integer
- b. **the function returns a non-integer**
- c. the function is not defined in the same file
- d. none of these

**35. Which of the following statement is not true?**

- a. A function may be placed either after or before the main() function
- b. A function may or may not return a value. If it does, it can return only one value
- c. A function can be defined inside another function**
- d. A variable that has been declared as static inside a function retains its value even after the function is exited.

**36. Choose the wrong one**

- a. A structure can be nested within same structure
- b. A value of one structure variable can be assigned to another structure variable of same or different type.**
- c. It is illegal to use the structure itself as its member.
- d. In self-referential structure one member must be a pointer type.

**37. void main()**

```
{  
    printf("%u",main);  
    getch();  
}
```

- a. Garbage value
- b. Run time error
- c. Printing starting address of function main**
- d. Infinite loop

**38. Find the incorrect one for 'typedef' statement**

- a. Permits descriptive names for datatypes.**
- b. Renaming existing datatype
- c. Modification of the program is easier when host machine is changed.
- d. All of the above

**39. What is the work of break keyword?**

- a. Halt execution of program
- b. Restart execution of program
- c. Exit from loop or switch statement**
- d. None of the above

**40. What is function?**

- a. Function is a block of statements that perform some specific task.
- b. Function is the fundamental modular unit. A function is usually designed to perform a specific task.
- c. Function is a block of code that performs a specific task. It has a name and it is reusable
- d. **All the above**

**For CDAC Videos and Notes:**

**<http://www.youtube.com/OptimisticEngineer>**