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

A. String B. Structures C. Char D. None of the above

2.Which operator connects the structure name to its member name?

A. - B. -> C. . D. both . and ->

3.Which of the following cannot be a structure member?  
 A: Another structure B: Function C: Array D: None of the mentioned

4. By default structure variable will be of auto storage class  
 A: Yes B: No

5. User-defined data type can be derived by\_\_\_\_\_\_\_\_\_\_\_.  
A: struct B: enum C: typedef D: All of the mentioned

6.Number of bytes in memory taken by the below structure is?

struct test  
{  
int k;  
char c;  
};

A: Multiple of integer size B: integer size+character size C: Depends on the platform

D: Multiple of word size

7. **What will be the output of the program ?**

int main()  
{  
    struct byte  
    {  
        int one:1;  
    };  
    struct byte var = {1};  
    printf("%d\n", var.one);  
    return 0;  
}

A: 1 B:-1 C: 0 D: Error

8.What is the output of this C code?  
 (Assuming size of int be 4)

 struct temp  
   {  
        int a;  
        int b;  
        int c;  
    } p[] = {0};  
    main()  
    {

printf("%d", sizeof(p));  
     }

A: 4 B: 12 C: 16 D: Can’t be estimated due to ambigous initialization of array

9. What is the output of this C code?  
 #include <stdio.h>  
    struct p  
    {  
        int k;  
        char c;  
    };  
    int p = 10;  
    int main()  
    {  
        struct p x;  
        x.k = 10;  
        printf("%d %d\n", x.k, p);  
    }

A: Compile time error B: 10 10 C: Depends on the standard D: Depends on the compiler

10. What will be the output of following program ?

#include <stdio.h>  
int main()  
{  
    struct std  
    {  
        char name[30];  
        int age;  
    };  
    struct std s1={"Mike",26};  
    struct std s2=s1;  
  
    printf("Name: %s, Age: %d\n",s2.name,s2.age);  
}

A:Name: Mike, Age: 26 B:Name: Garbage, Age: Garbage C:Error D:Nothing

11. What is the correct syntax to declare a function foo() which receives an array of structure in function?

A. void foo(struct \*var); B. void foo(struct \*var[]); C. void foo(struct var); D. none of the above.

12. What will be the output of the program?

#include<stdio.h>

struct course

{

int courseno;

char coursename[25];

};

int main()

{

struct course c[] = {

{102,"Java"},

{103,"PHP"},

{104,".DotNet"}

};

printf("%d",c[1].courseno);

printf(" %s\n",(\*(c+1)).coursename);

return 0;

}

1. 103 .DotNet B. 102 Java C. 103 PHP D. 104 .DotNet.

13. What will be the output of the program?

#include <stdio.h>

struct sample

{

int a=0;

char b='A';

float c=10.5;

};

int main()

{

struct sample s;

printf("%d,%c,%f",s.a,s.b,s.c);

return 0;

}

A. ERROR B. [0, A, 10.5](javascript:void(0);) C. [0, A, 10.500000](javascript:void(0);) D. [No Error , No Output](javascript:void(0);)

14. What will be the output of the program?

#include <stdio.h>

struct employee{

int empId;

char \*name;

int age;

};

int main()

{

struct employee emp []={ {1,"Mike",24}, {2,"AAA",24}, {3,"BBB",25}, {4,"CCC",30} };

printf("Id : %d, Age : %d, Name : %s", emp[2].empId,3[emp].age,(\*(emp+1)).name);

return 0;

}

A. Id : 3, Age : 30, Name : AAA B. [Id : 3, Age : 23, Name : Mike](javascript:void(0);)

C. [Id : 3, Age : 30, Name : AAA](javascript:void(0);) D. ERROR.

15. What will be the output of the program?

#include <stdio.h>

int main()

{

typedef struct tag{

char str[10];

int a;

}har;

har h1,h2={"IHelp",10};

h1=h2;

h1.str[1]='h';

printf("%s,%d",h1.str,h1.a);

return 0;

}

A. [ERROR](javascript:void(0);) B. [IHelp,10](javascript:void(0);) C. [IHelp,0](javascript:void(0);) D. [Ihelp,10](javascript:void(0);)

16. What will be the output of the program?

#include<stdio.h>

struct

{

int i;

double b;

float f;

}s;

int main()

{

printf("%d\t%d\t%d\t%d", sizeof(s.i), sizeof(s.b), sizeof(s.f), sizeof(s));

return 0;

}

A: 4 8 4 24 B: 8 2 4 12 C: 10 4 6 4 D: 4 8 4 14

17. The correct syntax to access the member of the ith structure in the array Of structures is?  
Assuming:

 struct temp  
{  
int b;  
}s[50];

A: s.b.[i]; B: s.[i].b; C: s.b[i]; D: s[i].b;

18. What will be the output of this C code?  
 (Assuming size of int be 4)

 struct temp  
   {  
        int a;  
        int b;  
        int c;  
    } p[] = {0};  
    main()  
    {          printf("%d", sizeof(p));  
     }

A: 4 B: 12 C: 16 D: Can’t be estimated due to ambiguous initialization of array

19. What will be the output of the program?

#include <stdio.h>

int main()

{

struct sample{

int x;

float y;

char text[20];

}z;

printf("%d %d",sizeof(z),sizeof(z.y));

return 0;

}

A.28 2 B. 28 4 C. 20 4 D. 24 4

20. What will be the output of the program?

#include <stdio.h>

struct Employee{

int emp\_Id;

char emp\_Name[30];

};

int main()

{

struct Employee Emp={101,"Soham"};

int salary[2][3]={{15000,25000,35000},{45000,55000,65000}};

printf("%d %s ",Emp.emp\_Id,Emp.emp\_Name);

printf("%d",\*(\*(salary+1)+1));

return 0;

}

A. 101 Soham 15000 B. 101 Soham 45000 C. 101 Soham 55000 D. 101 Soham 65000

21.Predict the output of the program?

#include <stdio.h>

struct Employee{

int emp\_Id;

char emp\_Name[30];

};

int main()

{

struct Employee Emp={102,"Abhijeet"};

int salary[2][3]={{15000,25000,35000},{45000,55000,65000}};

printf("%d %s ",Emp.emp\_Id,Emp.emp\_Name);

printf("%d",\*\*(salary+1));

return 0;

}

A. 102 Abhijeet 15000 B. 102 Abhijeet 45000 C. 102 Abhijeet 55000 D. 102 Abhijeet 65000

22.What will be the output of the program?

#include<stdio.h>

int main()

{

int a=5;

int \*p;

p=&a;

printf("%d %d %d",&a,\*p,p);

return 0;

}

A. 6587620 5 6487620 B. 6487620 5 6488620 C. 6487620 5 6487620

23. If the address of pointer ptr is 2000, then what will the output of following program ?  
[On 32 bit compiler.]

|  |  |
| --- | --- |
|  | #include <stdio.h>  int main()  {      void \*ptr;      ++ptr;      printf("%u",++ptr);      return 0;  } |

A.2021 B. 2000 C. 2022 D. ERROR

24. Choose a correct statement about C structure elements.?

A) Structure elements are stored on random free memory locations

B) structure elements are stored in register memory locations

C) structure elements are stored in contiguous memory locations

D) None of the above.

25.Point out the error in the program?

struct Logipool

{

int id;

struct Logipool L;

};

A. ERROR: in structure declaration. B. Linker Error C. No Error. D. None of above