

C LANG TEST-10 (STRUCTURE & UNION)

Total points 50/50 

STUDENT NAME *

VIVA

 1. A structure in C is – *

1/1

- A) A collection of variables of the same type
- B) A collection of variables of different types
- C) A function
- D) A keyword



 2. Which keyword is used to define a structure in C? *

1/1

- A) struct
- B) structure
- C) strct
- D) record



✓ 3. What is the correct syntax to declare a structure? *

1/1

- A) struct student { int roll; char name[20]; };
- B) structure student (int roll; char name[20];);
- C) struct student = { int roll; char name[20]; };
- D) student struct { int roll; char name[20]; };

✓

✓ 4. How do you access members of a structure using a variable? *

1/1

- A) structure.variable
- B) variable.member
- C) variable->member
- D) member.variable

✓

✓ 5. Which operator is used to access structure members through a pointer? *

1/1

- A) . (dot)
- B) -> (arrow)
- C) *
- D) &

✓



✓ 6. A structure variable can be declared as — *

1/1

- A) Inside main() only
- B) Globally or locally
- C) Inside functions only
- D) None

✓

✓ 7. The memory size of a structure is — *

1/1

- A) Equal to sum of all members
- B) Equal to size of largest member
- C) Undefined
- D) Depends on compiler alignment

✓

✓ 8. What will this code do? *

1/1

```
struct A {  
    int x;  
    char y;  
};
```

- A) Creates an object
- B) Defines a new data type
- C) Declares a variable
- D) None

✓ 9. You can create a variable of structure student as — *

1/1

- A) student s;
- B) struct student s;
- C) structure student s;
- D) record student s;

✓ 10. What is the size of the structure below (on 32-bit system)? *

1/1

```
struct s { int a; char b; };
```

- A) 5
- B) 8 (due to padding)
- C) 4
- D) 6



✓ 11. A structure can contain — *

1/1

- A) Only arrays
- B) Only pointers
- C) Other structures
- D) Only integers

✓

✓ 12. When a structure is nested inside another, it is called — *

1/1

- A) Nested structure
- B) Compound structure
- C) Union
- D) None

✓

✓ 13. Which statement correctly accesses nested structure member? *

1/1

- A) student.address.city
- B) student->city
- C) student(city)
- D) city.student

✓



✓ 14. Structures in C are stored in – *

1/1

- A) Stack
- B) Heap
- C) Memory depending on declaration
- D) ROM

✓

✓ 15. Can structures have arrays as members? *

1/1

- A) Yes
- B) No
- C) Only int arrays
- D) Only char arrays

✓

✓ 16. What does typedef do when used with structure? *

1/1

- A) Defines new variable
- B) Creates alias name for structure
- C) Allocates memory
- D) None

✓



✓ 17. Which is correct typedef usage? *

1/1

- A) `typedef struct student { int id; } STUD;`
- B) `typedef struct STUD { int id; };`
- C) `typedef student struct;`
- D) `typedef {int id;} student;`

✓

✓ 18. Which of the following initializes a structure correctly? *

1/1

- A) `struct student s = {1, "Viva"};`
- B) `struct student s(1, "Viva");`
- C) `student s{1, "Viva"};`
- D) `new student(1, "Viva");`

✓

✓ 19. What is the output? *

1/1

```
struct s { int a; };
struct s x = {10};
printf("%d", x.a);
```

- A) 10
- B) 0
- C) Garbage
- D) Error

✓



✓ 20. Can structure members be of pointer type? *

1/1

- A) Yes
- B) No
- C) Only for int
- D) Only for char

✓

✓ 21. What is the size of a union? *

1/1

- A) Sum of sizes of all members
- B) Size of largest member
- C) Average size
- D) Undefined

✓

✓ 22. Which keyword defines a union? *

1/1

- A) struct
- B) union
- C) record
- D) type

✓



✓ 23. Which statement is true for union? *

1/1

- A) All members share the same memory
- B) Each member has its own memory
- C) It behaves like array
- D) None

✓

✓ 24. What happens when one member of a union is assigned a value? *

1/1

- A) Only that member is valid
- B) All members get same value
- C) All members change
- D) None

✓

✓ 25. Which is the correct declaration of a union? *

1/1

- A) union data { int i; float f; };
- B) struct data (int i; float f;);
- C) union { int i; float f; } data;
- D) A and C

✓



✓ 26. Which is true for both structure and union? *

1/1

- A) Both can have members of different types
- B) Both use . and -> operators
- C) Both can be passed to functions
- D) All of the above

✓

✓ 27. What is the output? *

1/1

```
union u { int i; char c; };
```

```
union u x;
```

```
x.i = 65;
```

```
printf("%c", x.c);
```

- A) 65
- B) A
- C) Error
- D) Garbage

✓

✓ 28. In structure, memory is allocated – *

1/1

- A) For all members separately
- B) For only one member
- C) Dynamically
- D) Depends on variable

✓



✓ 29. In union, memory is allocated — *

1/1

- A) For all members
- B) For largest member
- C) For first member only
- D) None

✓ 30. What will be the output? *

1/1

```
union test { int i; float f; };
```

```
union test t;
```

```
t.i = 10;
```

```
printf("%d", t.i);
```

- A) 10
- B) Garbage
- C) Error
- D) None



✓ 31. Can a union contain a structure as a member? *

1/1

- A) Yes
- B) No
- C) Only if structure is empty
- D) None

✓

✓ 32. Which is not allowed in structure but allowed in union? *

1/1

- A) Same memory for all members
- B) Pointer to itself
- C) Nested types
- D) None

✓

✓ 33. Which is more memory-efficient? *

1/1

- A) Structure
- B) Union
- C) Both equal
- D) Depends on compiler

✓



✓ 34. Can you assign one structure variable to another of same type? * 1/1

- A) Yes
- B) No
- C) Only if pointer
- D) Only if typedef used

✓

✓ 35.What is printed? * 1/1

```
struct A { int x; float y; };

struct A a1 = {1, 2.5};

struct A a2;

a2 = a1;

printf("%d %.1f", a2.x, a2.y);
```

- A) 0 0.0
- B) 1 2.5
- C) Garbage
- D) Error

✓

✓ 36. What is the main difference between structure and union? *

1/1

- A) Structure allocates separate memory; union shares memory
- B) Union allocates separate memory; structure shares
- C) Both same
- D) None

✓

✓ 37. Which function can pass structure by reference? *

1/1

- A) Using pointer
- B) By value
- C) By both
- D) None

✓

✓ 38. Structure variables are usually accessed by – *

1/1

- A) Dot operator
- B) Arrow operator
- C) Both
- D) None

✓



✓ 39. Which of the following is invalid? *

1/1

- A) struct student s1, s2;
- B) union data d1, d2;
- C) struct data {int a;} = {10};
- D) typedef struct data d;

✓

✓ 40. In C, you can use structure to — *

1/1

- A) Group related data
- B) Create user-defined types
- C) Pass multiple data to functions
- D) All of these

✓

✓ 41. Which operator is used to access structure through pointer? *

1/1

- A) ->
- B) .
- C) *
- D) &

✓



✓ 42. Which of the following correctly defines an array of structures? * 1/1

- A) struct student s[10]; ✓
- B) struct student[10] s;
- C) student struct[10];
- D) array student[10];

✓ 43. How do you access the roll number of 3rd student in an array s? * 1/1

- A) s.roll[2]
- B) s[2].roll ✓
- C) s->roll[2]
- D) s.roll->2



✓ 44. What will this print? *

1/1

```
union data { int i; char c; };

union data d;

d.c = 'A';

printf("%d", d.i);
```

- A) 65
- B) Garbage
- C) Error
- D) 0

✓ 45. Which of the following can have bit fields? *

1/1

- A) struct
- B) union
- C) Both
- D) None

✓ 46. A bit field in structure is defined to – *

1/1

- A) Save memory for small data
- B) Increase size
- C) Store characters
- D) Store float



✓ 47. Which of the following can be nested within structure? *

1/1

- A) Another structure
- B) Array
- C) Union
- D) All

✓

✓ 48. Can a function return a structure? *

1/1

- A) Yes
- B) No
- C) Only pointer to structure
- D) None

✓

✓ 49. Which of the following statements is false? *

1/1

- A) Structures can contain functions
- B) Structures can contain arrays
- C) Unions can contain arrays
- D) Unions can store one member at a time

✓



✓ 50. Which of the following is the best use of union? *

1/1

- A) When different data types share the same memory location
- B) When all members are used simultaneously
- C) For storing identical data types
- D) For memory wastage

✓

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