

C++ TEST-16 (STRUCTURE & UNION)

Total points 50/50 

STUDENT NAME *

VIVA

✓ 1. What is a structure in C++? *

1/1

- A) A collection of related data items of different types
- B) A collection of same data types
- C) A function
- D) A pointer

✓

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

1/1

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

✓



✓ 3. How do you declare a structure in C++? *

1/1

- A) structure Student { ... };
- B) struct Student { ... };
- C) Student struct { ... };
- D) typedef Student { ... };



✓ 4. What is a union in C++? *

1/1

- A) A data type that can hold different data types but only one at a time
- B) A group of arrays
- C) A class
- D) A function



✓ 5. Keyword used to define a union is: *

1/1

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



✓ 6. Size of a structure is equal to: *

1/1

- A) Sum of sizes of all members
- B) Size of largest member
- C) Product of members
- D) Always 1 byte

✓

✓ 7. Size of a union is equal to: *

1/1

- A) Sum of sizes of all members
- B) Size of largest member
- C) 0
- D) Average of member sizes

✓

✓ 8. Which one can store multiple values at a time? *

1/1

- A) Structure
- B) Union
- C) Both
- D) None

✓



✓ 9. Which one can store only one value at a time? *

1/1

- A) Structure
- B) Union

✓

✓ 10. Members of a structure are accessed using: *

1/1

- A) Dot (.) operator
- B) Arrow (->) operator
- C) Star (*) operator
- D) Both A and B

✓

✓ 11. Members of a structure pointer are accessed using: *

1/1

- A) Dot (.)
- B) Arrow (->)
- C) Both
- D) None

✓

✓ 12. Can a structure contain functions? *

1/1

- A) Yes
- B) No

✓



✓ 13. Can a union contain functions? *

1/1

- A) Yes
- B) No

✓

✓ 14. Which of the following can use different data types in a single variable?

*1/1

- A) Union
- B) Structure
- C) Enum
- D) Array

✓

✓ 15. What is the default access specifier for structure members in C++? *

1/1

- A) private
- B) protected
- C) public
- D) static

✓



✓ 16. What is the default access specifier for class members? *

1/1

- A) public
- B) private
- C) protected
- D) None

✓

✓ 17. Can we nest structures inside other structures? *

1/1

- A) Yes
- B) No

✓

✓ 18. How can we define a structure variable? *

1/1

- A) struct Student s1;
- B) Student s1;
- C) Both A and B
- D) None

✓



✓ 19. Structure variables can be passed to functions as: *

1/1

- A) Call by value
- B) Call by reference
- C) Both
- D) None

✓

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

*1/1

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

✓

✓ 21. A structure in C++ can also contain: *

1/1

- A) Functions
- B) Arrays
- C) Other structures
- D) All of the above

✓



✓ 22. Can we define constructors inside structures? *

1/1

- A) Yes
- B) No



✓ 23. Can we use inheritance in structures? *

1/1

- A) Yes
- B) No



✓ 24. What is the size of the following structure? struct A { int x; char y; }; *

1/1

- A) 5 bytes
- B) 8 bytes (depends on padding)
- C) 4 bytes
- D) 1 byte



✓ 25. What is structure padding? *

1/1

- A) Adding extra bytes for alignment
- B) Removing unused bytes
- C) Compressing structure size
- D) Allocating equal memory for all members



✓ 26. What will happen if you access a union member other than the one *1/1
most recently assigned?

- A) Undefined behavior
- B) Error
- C) Previous value retained
- D) All values printed

✓

✓ 27. A union can have: *

1/1

- A) Only one active member at a time
- B) All members active
- C) No active members
- D) None

✓

✓ 28. A structure variable can be initialized at the time of declaration. *

1/1

- A) True
- B) False

✓

✓ 29. Which one consumes less memory – structure or union? *

1/1

- A) Union
- B) Structure

✓



✓ 30. What happens if you define a union with two members of size 2 and 4 bytes respectively? *1/1

- A) Total size = 4 bytes
- B) Total size = 6 bytes
- C) Total size = 2 bytes
- D) Error

✓

✓ 31. Which is more memory efficient? *

1/1

- A) Union
- B) Structure

✓

✓ 32. A structure can be used to represent: *

1/1

- A) A record in a database
- B) A single integer
- C) A single float
- D) A macro

✓



✓ 33. Union is used when: *

1/1

- A) Only one variable needs to store values at a time
- B) All members need simultaneous storage
- C) Both
- D) None

✓

✓ 34. Can we use `typedef` with structures and unions? *

1/1

- A) Yes
- B) No

✓

✓ 35. Which of the following is valid? *

1/1

- A) `typedef struct {int x;} data;`
- B) `typedef union {int x;} item;`
- C) Both
- D) None

✓



✓ 36. How are members of a structure stored in memory? *

1/1

- A) In contiguous memory locations
- B) Randomly
- C) Separately allocated
- D) Dynamically linked

✓

✓ 37. How are members of a union stored in memory? *

1/1

- A) In overlapping memory locations
- B) Contiguously
- C) Separately
- D) Randomly

✓

✓ 38. Can arrays of structures be created? *

1/1

- A) Yes
- B) No

✓

✓ 39. Can arrays of unions be created? *

1/1

- A) Yes
- B) No

✓

✓ 40. Structure members are accessed using which operator? *

1/1

- A) . (dot)
- B) -> (arrow)
- C) Both

✓

✓ 41. Can we compare two structure variables directly using ==? *

1/1

- A) No
- B) Yes

✓

✓ 42. Can we assign one structure variable to another of the same type? * 1/1

- A) Yes
- B) No

✓

✓ 43. In a union, when one member is updated: *

1/1

- A) Other members get affected
- B) Other members retain old values
- C) Other members remain unchanged
- D) It causes error

✓



✓ 44. Which keyword is used to share the same memory for multiple members? *

1/1

- A) union
- B) struct
- C) static
- D) friend

✓

✓ 45. Can a structure have static members? *

1/1

- A) Yes
- B) No

✓

✓ 46. Can a union have static members? *

1/1

- A) No
- B) Yes

✓

✓ 47. In which case should a union be used instead of a structure? *

1/1

- A) When only one member is used at a time
- B) When all members are used together

✓



✓ 48. Which one is faster in execution? *

1/1

- A) Union
- B) Structure
- C) Both same

✓

✓ 49. Which of the following can be nested? *

1/1

- A) Structure
- B) Union
- C) Both

✓

✓ 50. What is the output size of the following union? *

1/1

union test { int a; char b; double c; };

- A) 4 bytes
- B) 8 bytes
- C) Size of double (typically 8 bytes)
- D) 12 bytes

✓

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