

# 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 most recently assigned? \*1/1

- ☒ 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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