

C++ TEST-8 (POINTERS)

Total points 50/50



STUDENT NAME *

VIVA

✓ 1. A pointer in C++ is a variable that stores: *

1/1

- A) A number
- B) Address of another variable
- C) Data value
- D) Function value



✓ 2. Which operator is used to get the address of a variable? *

1/1

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



✓ 3. Which operator is used to access the value of the variable pointed by a pointer? *1/1

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

✓

✓ 4. What is the correct syntax to declare a pointer to an integer? * 1/1

- A) int ptr;
- B) int *ptr;
- C) int &ptr;
- D) pointer int ptr;

✓

✓ 5. If int a = 10; then int *p = &a; means: * 1/1

- A) p holds the value 10
- B) p holds the address of a
- C) p is undefined
- D) p is reference of a

✓

✓ 6. What does `*p` give if `int *p = &a;` and `a = 10;`? *

1/1

- A) Address of a
- B) 10
- C) p
- D) Error

✓

✓ 7. The address of a pointer variable itself can be obtained using: *

1/1

- A) `&p`
- B) `p`
- C) `*p`
- D) None

✓

✓ 8. What is the output of the following code? *

1/1

```
int a = 5;
```

```
int *p = &a;  
cout << *p;
```

- A) 5
- B) Address of a
- C) Error
- D) Garbage

✓

✓ 9. What is the size of a pointer in a 64-bit system? *

1/1

- A) 2 bytes
- B) 4 bytes
- C) 8 bytes
- D) Depends on variable type

✓

✓ 10. Which of the following is the correct way to initialize a pointer to NULL?

*1/1

- A) int *p = 0;
- B) int *p = NULL;
- C) int *p = nullptr;
- D) All of the above

✓

✓ 11. Which keyword is used for dynamic memory allocation in C++? *

1/1

- A) malloc
- B) new
- C) allocate
- D) create

✓

✓ 12. Which keyword is used to free dynamically allocated memory in C++?

*1/1

- A) free
- B) delete
- C) remove
- D) erase

✓

✓ 13. What is wrong with this code? *

1/1

```
int *p;
```

```
*p = 10
```

- A) Syntax error
- B) p is uninitialized
- C) Memory leak
- D) None

✓

✓ 14. What is a dangling pointer? *

1/1

- A) Pointer initialized to NULL
- B) Pointer pointing to invalid or deleted memory
- C) Pointer not declared
- D) Pointer to constant

✓

✓ 15. Which pointer always points to the current object? *

1/1

- A) self
- B) super
- C) this
- D) current



✓ 16. What is output? *

1/1

```
int x = 5;  
int *p = &x;  
*p = 10;  
cout << x;
```

- A) 5
- B) 10
- C) Address of x
- D) Error



✓ 17. Which of the following statements is true? *

1/1

- A) Pointer arithmetic is allowed on void pointers
- B) You can assign any type address to a void pointer
- C) Void pointer cannot hold any address
- D) None



✓ 18. Which of the following declares a pointer to pointer to int? *

1/1

- A) int ptr;
- B) int ptr;
- C) int ptr;
- D) pointer **ptr;



✓ 19. What is the output? *

1/1

```
int x = 10;
```

```
int *p = &x;
```

```
int **q = &p;
```

```
cout << **q;
```

- A) 10
- B) Address of x
- C) Address of p
- D) Error



✓ 20. Pointer arithmetic works on: *

1/1

- A) Integers only
- B) Data type of pointer
- C) Random values
- D) None



✓ 21. What is p++ in pointers? *

1/1

- A) Increment pointer value
- B) Moves pointer to next memory location
- C) Adds 1 to address
- D) All of these



✓ 22. Which of the following expressions is invalid? *

1/1

- A) p++
- B) ++p
- C) p--
- D) ++(*p)++



✓ 23. What will p+1 do if p is an int pointer? *

1/1

- A) Add 1 byte
- B) Add 2 bytes
- C) Add 4 bytes (assuming int=4 bytes)
- D) Add 8 bytes



✓ 24. What is a null pointer? *

1/1

- A) Pointer pointing to address 0
- B) Pointer without data type
- C) Pointer to integer
- D) Pointer to 1



✓ 25. What happens when you dereference a NULL pointer? *

1/1

- A) Returns 0
- B) Segmentation fault
- C) Prints NULL
- D) Undefined behavior



✓ 26. Which statement is used to dynamically allocate an array? *

1/1

- A) `int *p = new int[10];`
- B) `int p = new int(10);`
- C) `int p = malloc(10);`
- D) `int p[10] = new;`



✓ 27. Which statement correctly releases memory allocated by new? *

1/1

- A) delete p;
- B) free(p);
- C) delete[] p;
- D) release(p);

✓

✓ 28. What is a wild pointer? *

1/1

- A) Pointer declared but not initialized
- B) Pointer pointing to 0
- C) Pointer to deleted memory
- D) None

✓

✓ 29. Which of the following correctly declares a pointer to a function? *

1/1

- A) int (ptr)(int, int);
- B) int ptr(int, int);
- C) int ptr(int, int);
- D) pointer(int, int);

✓

✓ 30. What is the output? *

1/1

int a = 10;

int *p = &a;

int *q = p;

cout << *q;

- A) 10
- B) Address of a
- C) 0
- D) Error

✓

✓ 31. What will be the result of: *

1/1

int arr[3] = {10,20,30};

int *p = arr;

cout << *(p+2);

- A) 10
- B) 20
- C) 30
- D) Error

✓

✓ 32. A pointer to a constant means: *

1/1

- A) The pointer cannot change the value it points to
- B) The pointer cannot change its address
- C) Both A and B
- D) None

✓

✓ 33. A constant pointer means: *

1/1

- A) The pointer cannot point to another variable
- B) The value cannot be modified
- C) Both
- D) None



✓ 34. What is the output? *

1/1

```
int x=5, *p=&x;
```

```
*p += 5;
```

```
cout << x;
```

- A) 5
- B) 10
- C) Address of x
- D) Error



✓ 35. Which of the following is true about pointer and array relationship? * 1/1

- A) Array name acts as pointer to first element
- B) Both are same
- C) Array is stored as pointer
- D) None



✓ 36. What is output? *

1/1

```
int a[5] = {1,2,3,4,5};
```

```
int *p = a;
```

```
cout << *(p+3);
```

- A) 2
- B) 3
- C) 4
- D) 5



✓ 37. Which of the following is not valid pointer type? *

1/1

- A) void *p;
- B) int *p;
- C) string *p;
- D) int &p;



✓ 38. Pointers can be used with: *

1/1

- A) Arrays
- B) Functions
- C) Classes
- D) All of these



✓ 39. Which of these is used to access class members using pointers? * 1/1

- A) *
- B) .
- C) -> ✓
- D) ::

✓ 40. The expression *(arr + i) is equivalent to: * 1/1

- A) arr[i] ✓
- B) arr(i)
- C) &arr[i]
- D) arr+i

✓ 41. What is the output? * 1/1

```
int arr[3] = {1,2,3};  
cout << &arr[0];
```

- A) 1
- B) Address of first element ✓
- C) Error
- D) 0

✓ 42. Pointer to pointer means: *

1/1

- A) Pointer that stores another pointer's address
- B) Pointer to integer
- C) Pointer to void
- D) None

✓

✓ 43. Which of the following is not a valid operation on pointers? *

1/1

- A) Addition
- B) Subtraction
- C) Multiplication
- D) Comparison

✓

✓ 44. What happens if delete is used twice on the same pointer? *

1/1

- A) Program crash
- B) Undefined behavior
- C) Normal execution
- D) Compilation error

✓

✓ 45. Which of these is a pointer to a string literal? *

1/1

- A) `char *p = "Hello";`
- B) `string p = "Hello";`
- C) `char p = 'H';`
- D) None

✓

✓ 46. What is output? *

1/1

```
int a = 10;
```

```
int *p = &a;
```

```
cout << p;
```

- A) 10
- B) Address of a
- C) Error
- D) Garbage

✓

✓ 47. What does `delete[]` do? *

1/1

- A) Deletes single object
- B) Deletes array allocated with `new[]`
- C) Deletes variable
- D) None

✓

✓ 48. What is a pointer constant? *

1/1

- A) A pointer whose value (address) cannot change
- B) A pointer that points to constant data
- C) Both A and B
- D) None



✓ 49. Can we have a pointer to a function in C++? *

1/1

- A) Yes
- B) No



✓ 50. Which of the following correctly deletes dynamically allocated memory? *1/1

int *p = new int;

- A) delete p;
- B) delete &p;
- C) free(p);
- D) remove(p);



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