



CS201

FINAL TERM

VU SPARKY



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فائل کو پڑھنے سے پہلے اپڈیٹ والے
لفظ پر کلک کر کے اپڈیٹ کر لے کچھ نئے
سوالات اپڈیٹ کیے جاتے ہیں۔

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1. When an operator function is defined as member function for a Unary operator then the number of extra arguments it takes is/are,
 - a. One
 - b. Two
 - c. N arguments
 - d. Zero ✓ SPARKY
2. When the compiler overloads the assignment (=) operator by default then
 - a. Class members are not assigned properly
 - b. Compiler does member wise assignment. ✓ SPARKY
 - c. Compiler does not allow default assignment operator
 - d. Compiler does not do member wise assignment.
3. The ws manipulator can be used with _____ stream(s).
 - a. Input ✓ SPARKY
 - b. Output
 - c. None of the given options

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d. Input/Output

4. If operator function is non-member function then object on left side of operator cannot be _____?

a. Object of operator class

b. Built-in data type

c. Object of different class

d. Object of member function ✓ *SPARKY*

5. Overloaded member operator function is always called by _____

a. Class

b. Compiler

c. Object ✓ *SPARKY*

d. Primitive data type

6. What will be the output of the following code segment?

a. `int n=8;`

b. `cout<<oct<<n;`

a. 8

b. 1000

c. 11

d. 10 ✓ *SPARKY*

7. What is meaning of bad bit in I/O operation:

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- a. Lost data
- b. Bad data
- c. Wrong data
- d. Error in data** ✓ *SPARKY*

8. Overloaded assignment operator must be

- a. Friend function of class
- b. Member function of class** ✓ *SPARKY*
- c. Non-member function of class
- d. Global function

9. `date+=1;` is equivalent to _____.

- a. `date++`** ✓ *SPARKY*
- b. `1+date`
- c. `++date`
- d. `date+1`

10. Ternary operator is shown as _____.

- a. `?:`** ✓ *SPARKY*

- b. `&&`
- c. `===`
- d. `|||`

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1. Look at the program code and identify the error. `#include<iostream> using namespace std; #define PI 3.1415926; main() { int radius = 5; cout << "Area of circle with radius " << radius << " = " << PI * radius * radius; }`
 - a. It will be compiled and returns nothing
 - b. It will be compiled successfully and will not generate error
 - c. **Error exists in line number 2. Semi colon is not allowed with define directive**
 - d. The value of PI cannot be defined in the beginning
2. `a = a + 1;` can be written as _____.
 - a. `a + 1;`
 - b. `a + a + 1;`
 - c. `1 + a = a;`
 - d. **`a += 1;`**
3. For converting a void type pointer `ptr` into integer type, the correct syntax is:
 - a. **`(int *) ptr`**
 - b. `*int ptr`
 - c. `ptr * int`
 - d. `int * ptr`
4. The `malloc` function takes _____ argument(s).
 - a. four
 - b. **one**
 - c. two
 - d. three
5. For console input and output we use _____.
 - a. `getch.h` header file
 - b. **`conio.h` header file**
 - c. `process.h` header file

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- d. `stdlib.h` header file
6. Programmer should be very careful about the memory management because it can _____.
- a. create problems of NULL pointers
 - b. cause problems of memory leakage and dangling pointers
 - c. affect the logic of the program
 - d. return void pointers
7. Which of the following is not a file opening mode _____?
- a. `ios::truncate`
 - b. `ios::in`
 - c. `ios::out`
 - d. `ios::ate`
8. What is the storage space of double data type?
- a. 64 bytes
 - b. 32 bytes
 - c. 8 bytes
 - d. 16 bytes
9. `a = a|b; ca be` written as _____.
- a. `a ==b;`
 - b. `a |=b;`
 - c. `a=b;`
 - d. `a =|b;`
10. Structures are syntactically defined with the word _____.
- a. None of the given
 - b. `struc`
 - c. `structure`
 - d. `struct`

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- a. Sequential
 - b. Repetition (HB)
 - c. Decision
 - d. None of the given options
2. Which one of the following languages has been used to write the compiler of “C” language?
- a. Basic
 - b. Fortran
 - c. Java
 - d. C (HB)
3. != operator is used to check whether the operand on the left-hand-side is _____ to the operand on the right-hand-side.
- a. Approximately equal to
 - b. Greater than or equal
 - c. Not equal (HB)
 - d. Less than or equal
4. What will be the output of the following while loop?
- ```
int counter = 0 ;
while(counter < 15)

cout << counter << “ ”;

counter++;
```
- a. 1 2 3 4
  - b. Compile time error
  - c. 1 2 3 4 5

- d. **Infinite loop** (HB)
5. Which of the following loops checks the test condition at the end of the loop?
- a. For
  - b. Nested Loop
  - c. **Do-While** (HB)
  - d. While
6. We comment the code, because it makes program \_\_\_\_\_ .
- a. Complex to understand
  - b. **Easy to understand** (HB)
  - c. Difficult to compile
  - d. Heavy i.e. more space is needed for executable
7. What will be the result of arithmetic expression  $6 + 48/4 * 3$ ?
- a. **42** (HB)
  - b. 41
  - c. 10
  - d. 40.5
8. Modulus operator (%) is only used with \_\_\_\_\_ type of operands.
- a. double
  - b. **int** (HB)
  - c. float
  - d. char
9. If

```
int a = 17;
```

```
int b = 3;
```

```
double c = a / b;
```

10. What will be value of variable c?
- a. 5.6
  - b. **5** (HB)
  - c. 5.5
  - d. 5.7
11. Using a segment of source code again by adding new functionalities with minor or without modification is termed as \_\_\_\_\_.
- a. Code efficiency
  - b. **Code Reusability** (HB)
  - c. Code modification
  - d. Code Generation
12. The most suitable data type for number 325.25 is \_\_\_\_\_.
- a. int
  - b. short
  - c. **float** (HB)
  - d. char
13. "<" and ">" both are \_\_\_\_\_ operators.
- a. Mathematical
  - b. Arithmetic
  - c. Logical
  - d. **Relational** (HB)

14. Which of the following is not a valid variable name in C++?

- a. **@studentName** (HB)
- b. `_studentName`
- c. `nameOfStudent`
- d. `NameOfStudent`

15. According to C++ norms; the first character of a variable name must be an alphabet or \_\_\_\_\_

- a. None of the given options
- b. Digit
- c. Special character
- d. **Underscore** (HB)

16. Using a segment of source code again by adding new functionalities with minor or without modification is termed as \_\_\_\_\_.

- a. **Code Reusability** (HB)
- b. Code modification
- c. Code efficiency
- d. Code Generation

17. `!=` operator is used to check whether the operand on the left-hand-side is \_\_\_\_\_ to the operand on the right-hand-side.

- a. **Not equal** (HB)
- b. Approximately equal to
- c. Less than or equal
- d. Greater than or equal

18. What will be the resultant value of this expression

$x = 17 \% 3 ?$

- a. 4
  - b. 3
  - c. 1
  - d. **2** (HB)
19. Which of the following loops checks the test condition at the end of the loop?
- a. For
  - b. Nested Loop
  - c. While
  - d. **Do-While** (HB)
20. Which one of the following languages has been used to write the compiler of "C" language?
- a. Basic
  - b. **C** (HB)
  - c. Java
  - d. Fortran
21. We use \_\_\_\_\_ to include all those functions in our program which are located in different files.
- a. Compiler
  - b. Debugger
  - c. **Linker** (HB)
  - d. Loader

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  - d. The value of PI cannot be defined in the beginning
2. `a = a + 1;` can be written as \_\_\_\_\_.
  - a. `a + 1;`
  - b. `a + a + 1;`
  - c. `1 + a = a;`
  - d. **`a += 1;` (HB)**
3. For converting a void type pointer ptr into integer type, the correct syntax is:
  - a. **`(int *) ptr` (HB)**
  - b. `*int ptr`
  - c. `ptr * int`
  - d. `int * ptr`
4. The malloc function takes \_\_\_\_\_ argument(s).
  - a. four
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  - c. two
  - d. three
5. For console input and output we use \_\_\_\_\_.
  - a. `getch.h` header file
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  - b. ios::in
  - c. ios::out
  - d. ios::ate
8. What is the storage space of double data type?
- a. 64 bytes
  - b. 32 bytes
  - c. **8 bytes**
  - d. 16 bytes
9.  $a = a|b$ ; ca be written as \_\_\_\_\_.
- a.  $a == b$ ;
  - b.  **$a |= b$ ; (HB)**
  - c.  $a = b$ ;
  - d.  $a = |b$ ;
10. Structures are syntactically defined with the word \_\_\_\_\_.
- a. None of the given
  - b. struc
  - c. structure
  - d. **struct**
11. A file opened with \_\_\_\_\_ is used for input and cannot be used for output.
- a. iostream
  - b. ofstream
  - c. conio
  - d. **ifstream** (HB)
12. Which is not true regarding structures?
- a. **c) We can't declare pointers to structure**

- b. b) We can take the size of structure  
c. d) Both b & c  
d. a) We can declare arrays of structure
13. Which is the correct syntax to define a structure named 'student'?
- a. structure student(  
//variables  
);
- b. struct student{  
//variables  
};**
- c. struct student(  
//variables  
);
- d. structure student{  
//variables  
};
14.  $a^b = b$ ; can be written as \_\_\_\_\_. (HB)
- a.  $a = b^a$ ;  
b.  $a = a^b$ ;  
c.  $a^b = a + b$ ;  
d.  **$a = a^b$ ;**
15. When we include the header file in the angle brackets the compiler searches for it in \_\_\_\_\_.
- a. current directory  
b. current folder  
c. all the drives  
d. **specific directory** (HB)
16. Look at the program code and identify the error. `#include<iostream> using namespace std; #define PI 3.1415926; main() { int radius = 5; cout << "Area of circle with radius " << radius << " = " << PI * radius * radius; }`
- a. It will be compiled and returns nothing  
b. The value of PI cannot be defined in the beginning

- c. Error exists in line number 2. Semi colon is not allowed with define directive (HB)
- d. It will be compiled successfully and will not generate error
17. Macros are categorized into \_\_\_\_\_ type(s).
- a. four
  - b. one
  - c. three
  - d. two
18. How many bits form a byte? (HB)
- a. 2
  - b. 6
  - c. 4
  - d. 8
19.  $a = a + 1;$  can be written as \_\_\_\_\_.
- a.  $a + a + 1;$
  - b.  $a + 1;$
  - c.  $a += 1;$  (HB)
  - d.  $1 + a = a;$
20. For console input and output we use \_\_\_\_\_.
- a. `stdlib.h` header file
  - b. `conio.h` header file (HB)
  - c. `getch.h` header file
  - d. `process.h` header file
- 