

11. Which statement is *false*

Bahir Dar University Bahir Dar Institute of Technology - Faculty of Computing Model Exam for Fundamental of Programming II (100%)



Name:		Id	_ Section	Time allowed:	
Pai	rt I - Choose the best answer				
	1. What is meant by ofstream in c++?				
	A. Writes to a file	C.	Both a & b		
	B. Reads from a file	D.	None		
2. Which operator is used to insert the data into file?					
	A. >>	C.	<		
	B. <<	D.	>		
	3. What is pointer?				
	A. The variable that stores the value of another variable				
	B. The variable that stores reference of				
	C. The variable that stores the memory address of another variable				
	D. A & C Both				
	4. Which header file is used for reading and writing to a file?				
	A. iostream		stdlib		
	B. fstream		None of the i		
	5. You have assigned the address of Value to the pointer P, Which statement will display				
	the value stored in Value using pointer		0 D		
	A. cout< <p;< td=""><td></td><td>cout<<&P</td><td></td></p;<>		cout<<&P		
	B. cout<<*Value;		cout<<*P;	sants the address of	
6. When the is present in front of a variable name, it represents that variable.			esems the address of		
	A. asterisk (*)	C	ampersand (& ₇)	
	B. conditional operator		-		
 B. conditional operator D. semicolon (;) 7. In order, the three-step process of using a file in a C++ program involves: A. Name the file, open the file, and delete the file 			* *	*	
	-	t a diskette, open a file, and remove the diskette			
	C. Open the file, read/write data, clos		-		
	D. Create the file contents, close the file, and name the file				
	8. Consider the following snippet code and which statement is legal to use			ise	
	flaot y;				
	int x;				
	int *ip;				
	float *fp;				
		ip = &x		E. A and B	
	V -	fp = &y		F. C and D	
	Consider the following snippet code and which statement produce error flaot y;			or	
	int x;				
	void *p;				
	A. p = &y		cout< <p;< td=""><td></td></p;<>		
10.	B. p = &x	D.	cout<<*p		
10.	Which statement is <i>true</i>	1	.1 , ~	. 1	
	A. An array name is just a pointer that		-	si element	
	B. Assigning an array name without index to pointer is validC. Assigning pointer to an array name without index is invalid				
	D. All	williout illuex is	invanu		
	14. /311				

- A. Structure is a collection of one or more variable types
- B. Structure can be referred using a single name
- C. Structure is user defined data type for grouping variables
- D. All
- E. None
- 12. What is the output of the following program

```
void main()
{
       int \ num = 100;
       int *p;
       cout<< "num is "<<num<<endl;</pre>
       p = #
       cout << "*p is "<<*p<<endl;
       *p = 300;
       *p = *p + 200;
       cout<< "num is "<<num<<endl;</pre>
       cout<< "*p is "<<*p<<endl;
       getch();
```

A. num is 100

*p is 100 num is 500

*p is 100

B. num is 100

*p is 100

num is 100

*p is 500

C. num is 100

*p is 100

num is 100

*p is 100

D. num is 100

*p is 100 num is 500

*p is 500

Consider the following fragment of code for question 13 to 16

char name[] = "C++ Programming";

13. What is the output of the following code

cout<<name[0];</pre> I.

A. C

C. C++

B. C++ Programming

D.

14. What is the output of the following code

II. cout<<name;</pre>

A. C

C. C++

B. C++ Programming

D.

15. What is the output of the following code

	III. cout<<*name;	
\boldsymbol{A}	. <i>C</i>	<i>C. C</i> ++
	. C++ Programming	D.
	g g	
16. What	is the output of the following code	
	<i>IV. cout</i> <<*(name+3);	
\boldsymbol{A}	. <i>C</i>	<i>C. C</i> ++
\boldsymbol{B}	. C++ Programming	<i>D</i> .
17	string manipulation function look	s for the first occurrence of a sub-string in another
string		
	. strchr()	C. strstr()
В	. strlwr()	D. strupr()
	h one of the following is true statement con. If a file object is declared with ofstream cl	nsidering file input/output operations? ass, we can use it for writing and reading to and from a
	file.	
В	. If a file object is declared with ifstream cla	ass, we can use it for writing to a file.
	•	ss, we can use it only for reading from a file.
	. If a file object is declared with ofstream cl	•
	None	uss, we can use it for reading from a fire.
		puter Engineering", "computer Science ",10) ";
19. Wilai	is the output of cout \sumemp(com	puter Engineering, computer science, 10),
A) 0		D) Undetermined value
B) +ve N		E) None
C) -ve N		
Based this	s fragment of code answer question 4 to 6 ==>	
20. whic	h one is the correct c++ statement	
		C) x=&c
	1=&x	D) a=&ptr1
B) z=		
21. which	n one is not correct	D)
A)	ntr3-ntr1	D) x=ptr3;
A) B)	ptr3=ptr1; ptr3=&ptr2	E) A and DF) B and C
C)	ptr3=&ptr2 ptr3=&d	1) Band C
,	n one is correct statement to display the Va	lue of variable using pointer
	1 7	C) cout<<*a;
A)	cout< <a;< td=""><td>D) cout<<*c;</td></a;<>	D) cout<<*c;
B)	cout<<&a	
23. Assui	me the file is opened using ostream object.	
4)	iosubinomy	C) ios::out
A) B)	ios::binary ios::in	D) ios::app
,	h function is used to move a pointer position	on in file reading mode
27. Wille	if function is used to move a pointer position	C) tellg();
A)	seekp();	D) tellp();
B)	seekg();	
25. which	n fstream function returns the failure of file	opening
		B) close();
A)	fail();	C) error();

- D) eof();
- 26. Which one of the following is not correct statement while working on strings?
 - A. char name[30] = "Aster";
 - B. char *name = "Solomon";
 - C. char *name; D. char name[30]; name = "Jemal"; name = "Abebech";
- 27. Which one of the following is false about structures in C++?
 - A. We can have array of structures.
 - B. Structure variables can be passed to functions.
 - C. We can return structure variables from functions
 - D. We can create a pointer structure variable
 - E. All of the above
 - F. None
- 28. Assume using C++ code you are writing something to a file. You don't want to overwrite the old file, rather you want to add the new text at the end of the previous text, what access mode should you use?
 - A. ios::in
 - B. ios::app
 - C. ios::beg
- 29. Which one is not the advantage of functions?
 - E. Software reusability
 - F. Readability
 - G. Divide and conquer
 - H. None
- 30. In which function calling method the original arguments will be passed?
 - A. Call by value
 - B. Call by reference
 - C. Call by sharing
 - D. All
- 31. Which one of the following is not the necessary step in a recursive method
 - A. test to stop or continue the recursion
 - B. An end case that terminates the recursion
 - C. A recursive call(s) that continues the recursion
 - D. None
- 32. Which one of the following is false about array?
 - A. An array index starts at index 1.
 - B. The last element of an array index is the same as the size of the array.
 - C. An array contains data of a multiple data type.
 - D. It is legal to refer to an element outside of the array bounds
 - E. All
 - F. None
- 33. What is the output of the following C++ code?

```
int list[5] = \{0, 5, 10, 15, 20\};
int j;
for(j = 0; j < 5; j++)
cout<<li>ist[j]<<" ";
cout<<endl;
```

- A. 01234
- B. 0 5 10 15 20
- C. 0 5 10 15
- D. None of these
- 34. What is the output of the following C++ code?

```
int list[10] = \{0, 5, 10, 15, 20, 60, 70\};
int j;
for(j = 1; j < 8; j++)
cout<<li>st[j]<<" ";
cout<<endl;
```

- A. 01234
- B. 0 5 10 15 20 60 70
- C. 05 10 15 20 60 70 0
- D. 5 10 15 20 60 70
- E. 5 10 15 20 60 70 0
- F. 051015
- G. None
- 35. By default how the value are passed in c++?
 - A. A. call by value
 - B. B. call by reference
 - C. C. call by pointer
 - D. D. none of the mentioned
- 36. Where should default parameters appear in a function prototype or function definition?
 - A. To the rightmost side of the parameter list
 - B. To the leftmost side of the parameter list
 - C. Anywhere inside the parameter list
 - D. Middle of the parameter list
- 37. If an argument from the parameter list of a function is defined constant then _____
 - A. It can be modified inside the function definition
 - B. It cannot be modified inside the function definition
 - C. Error occurs
 - D. None
- 38. Which of the following is true about automatic and static variable?
 - A. Static variables initialization can be executed only once during the first call
 - B. If static variables are not initialized explicitly, it will be initialized to 0 automatically
 - C. If local variables are static, their values remain in case the function is called again
 - D. Automatic variables contents will be erased when the function ends
 - E. All excepts A
 - F. A11
- 39. Functions are overloaded if
 - A. if two or more functions differ only in their return types
 - B. if the number of arguments passed is different.
 - C. if the type of arguments passed is different.

- D. if the number and/or type of arguments passed is different.
- E. if the type of arguments passed is different and return type is different
- F. All except A
- G. All
- 40. Inlining a function is needed when
 - A. the function calls itself
 - B. the function body contains loops
 - C. the function size is too large
 - D. All
 - E. None
- 41. in c++ programming strcmp() function is used for
 - A. convert sting to char
 - B. copy two string
 - C. compare two string
 - D. all
- 42. What is the output of this program?

```
#include <iostream>
#include <string.h>
using namespace std;
int main()
  struct student {
    int num;
    char name[25];
  };
  student stu;
  stu.num = 123;
  strcpy(stu.name, "John");
  cout << stu.num << endl;</pre>
  cout << stu.name << endl;
  return 0;
  a) 123
    john
  b) 123john
  c) john123
  d) john
```

- 43. Which of the following is a properly defined structure?
 - a) struct {int a;}

123

- b) struct a_struct {int a;}
- c) struct a_struct int a;
- d) struct a_struct {int a;};
- 44. Which of the following correctly declares an array?

```
a) int array[10];
```

- b) int array;
- c) array{10};
- d) array array[10];
- 45. If the two strings are identical, then strcmp() function returns

```
a). -1 b). 1 c). 0 d). True
```

46. What is the output of the following C++ program?

```
int main ()
{
    char str1[10] = "Hello";
    char str2[10] = "World";
    char str3[10];
    int len;
    strcpy( str3, str1);
    cout<<"strcpy(str3, str1)"<<str3<< endl;
    strcat( str1, str2);
    cout<<"strcat(str1, str2):"<<str1<<endl;
    len = strlen(str1);
    cout << "strlen(str1) : " << len << endl;
    return 0;
}</pre>
```

```
A. strcpy(str3,str1)Hello
strcat(str1,str2):Hello
strlen(str1) : 10
B. strcpy(str3,str1)HelloWorld
strcat(str1,str2):HelloWorld
strlen(str1) : 10
C. strcpy(str3,str1)Hello
strcat(str1,str2):World
strlen(str1) : 10
D. strcpy(str3,str1)Hello
strcat(str1,str2):HelloWorld
strlen(str1) : 10
```

47. What is the output of the following C++ program?

```
int main ()
{
   string str1 = "Hello";
   string str2 = "World";
   string str3;
   int len;
   str3 = str1;
```

```
cout << "str3 : " << str3 << endl;
str3 = str1 + str2;
cout << "str1 + str2"<< str3 << endl;
len = str3.size();
cout << "str3.size() : " << len << endl;
return 0;
}</pre>
```

```
Α.
str3 : Hello
str1 + str2HelloWorld
str3.size(): 10
В.
str3 : Hello
str1 + str2Hello
str3.size(): 10
С.
str3 : Hello
str1 + str2HelloWorld
str3.size(): 9
D.
str3 : Hello
str1 + str2
str3.size(): 0
```

48. What is the output of the following C++ program?

```
void main ()
{
  int val1 = 5, val2 = 15;
  int *p1, *p2;
  p1 = &val1;
  p2 = &val2;
  *p1 = 10;
  *p2 = *p1;
   p1 = p2;
  *p1 = 20;
  cout<<"value1="<<val1<<end1;
  cout<<"val2="<<val2;
}</pre>
```

```
A. value1=10
val2=10
B. value1=10
```

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Fundamentals of Programming II Test (20%)

```
val2=20
C. value1=20
val2=20
D. value1=0
va12=0
```

- 49. Which one of the following pairs of functions can't be considered as overloaded functions?
 - a. int test(int x, int y) int test(int x, float y)
 - b. int test(float x, int y) float test(int x, int y)
 - c. int test(int x, int y, int z) int test(int x, int y)
- 50. What is the output of the following fragment of C++ code?

```
float \ product(int \ a, float \ b=4.5, \ float
c=5.5)
       float p = 2*(a + b + c);
      ruturn p;
void main()
      int x = 3;
      float y = 1.5, z = 3.5;
     cout<<pre><<pre>endl;
    10
Α.
B. 5
C. 0
```

D. Error

- d. int test(int x, int y) float test(int x, int y)
- e. float test(int x, int y) int test(float x, float y)