TAKORADI TECHNICAL UNIVERSITY FACULTY OF APPLIED SCIENCE DEPARTMENT OF COMPUTER SCIENCE END OF SECOND SEMESTER EXAMINATION 2020/2021

BTECH ICT - LEVEL 100

COURSE: C++ PROGRAMMING

AUGUST 2021

SECTION A: (20MARKS) - 1HOUR Answer all questions

COURSE CODE: CSC313 **DURATION: 2HR 30MIN** GR-B

1. A valid C++ identifier has the following features except

- a. Identifiers cannot start with a digit
- b. Identifier can be a C++ keyword
- c. Identifiers may include an underscore (_)
- d. Identifiers may be of any length

2. The #include<iostream> in C++ does the following except

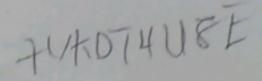
- Tells the C++ pre-processor to include input/output header file
- b. Contains information necessary to compile programs that use cin and cout
- c. Contains information necessary to compile the operators << and >>
- d. None of the above
- 3. In a function, the following is true
 - a. a left brace must begin the body of the function
 - b. a corresponding right brace must end each function's body
 - c. all of the above
 - d. none of the above
- 4. A semi-colon is used in the following except
 - a. After the right ending brace of a function's body
 - b. After a function declaration statement
 - c. After a variable declaration statement
 - d. After an arithmetic logic statement
- 5. Concerning a string, which of the following is true
 - a. White space characters in strings are ignored by compiler
 - b. String in double quotes is not a character string
 - c. String in double quotes is sometimes referred to as character string
 - d. Strings are the same as characters
- 6. In an if statement the following is true except
 - a. The condition is enclosed in two brackets ()
 - b. The statement of the condition may follow with or without curly brackets {}
 - c. It allows a program to make a decision when certain conditions are met
 - d. None of the above
- 7. The following is true about variables
 - a. Local variables can only be used only in member functions
 - b. Global variables can only be used outside the member functions
 - c. All of the above
 - d. None of the above

8. Consider the two lines code in a C++ program below and select which option is true cout << "This is a C++ program\n"; cout << "\tThis is a C++ program"; a. The first line is wrong b. The first line will output This is a C++ program\n c. The second line will create a tab space before outputting the string 9. Given the algebraic expression y=ax³+7 which of the following, is a correct C++ statement for this equation? a. y = a *(x * x * x) + 7;b. y = a * x * x * (x+7);c. y = a * x * x * x + 7;d. y = (a * x) * x * (x+7);10. In a repetitive statement... a. A condition must be met b. An action is repeated while the condition remains true c. All of the above d. None of the above 11. Consider the following code and select which error needs correction while (c <= 5) cin<<c; product *= c; C++; a. Change << to >> on line 3 b. Add } on line 6 c. All of the above d. All the code is correct 12. Every class definition contains the keyword ______ followed immediately by the class's name. a. Class b. Float c. Datatype d. function and a(n) 13. Each parameter in a function header should specify both a(n) _ a. Scope, name b. Type, name c. Access specifier, type d. Void, operator

	Conte	ss maintains is own copy of an attribute, the variable that
14. When 6	ach object of a cla	ss maintains is own copy of all sales ke
represe	nts the account	also known as a(n)
	nata type	
b.	Access specifier	
C	Data member	
d.	Object	indicates that a function will perform a task but will not
15. Return	type	indicates that a function will perform a task but will not hen it completes its task
return	any illioning	hen it completes its task
a.	Void	
b.	Object	
	Int	
d.	string	
16. The ke	yword public is a(n)
a.	Class	
b.	Data type	
	Object	
d.	Access specifier	
	wing code helpy to	o answer questions (4 to 20
Use the follow	Wing code below t	
#Include <iost< th=""><td>tream></td><td></td></iost<>	tream>	
using names		
int main()		
{		
int a,	b	
a=5;		
	: <a<<"and"<<b;< th=""><th></th></a<<"and"<<b;<>	
	m("pause");	
retur		
,		
17 The c	ode above will no	t run because there is a syntax error
	True	
	. False	
	. Invalid point	
	. None of the ab	ove
	th of the following	
18. Whit	There is an arry	or in the first line of the code
3	. There is an erro	required at the end of the first line in the code
	. All of the above	
	d. None of the ab	
		is not true about the function main
-	a. It takes two pa	rameters
	b. It returns an in	teger value
	c. All of the abov	
	d. None of the ab	oove

20. The following is true of the modulus operator %

- a. Works only with integer operands
- b. Yields the remainder after division
- c. All of the above None of the above



SECTION B: ANSWER ALL (20MARKS) - 30MIN

Answer True or False to each of the questions in this section and explain the reason if your answer is false.

1	There should be a semicolon after the parenthesis of an if statement	(2marks)
2.	Every C++ program begins execution at the function main	
3.	Comments are used to document a program and improve its readability	(2marks)
4.	The default case is required in the switch selection statement.	(2marks)
5,	All arguments to function calls in C++ are passed by value	(2marks)
6.	C++ considers the variables number and NuMbEr to be identical.	(2marks)
7.	An array subscript should normally be of data type float	(2market
8.	The break statement is required in the default case of a switch selections exit the switch properly.	statement to
0		(2marks)
5.	A variable that is known only within the function in which it is defined is variable.	called a local
10		(2marks)
10. An array can store many different types of values.		(2marks)