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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

COURSE CODE: CSC313

DURATION:2HRS

AUGUST 2021

SECTION A: (20MARKS) - 30MIN Answer all questions

1. 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

2. 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

3. 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

4. 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

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

a. 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

Use the following code below to answer questions 6 to 8 #Include<iostream> using namespace std; int main() int a, b a=5; cout<<a<<"and"<<b; system("pause"); return 0; The code above will not run because there is a syntax error a. True b. False c. Invalid point d. None of the above 7. Which of the following is True? a. There is an error in the first line of the code A semi-colon is required at the end of the first line in the code All of the above d. None of the above 8. Which of the following is not true about the function main a. It takes two parameters b. It returns an integer value All of the above d. None of the above 9. The following is true of the modulus operator % a. Works only with integer operands b. Yields the remainder after division All of the above d. None of the above 10. 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 11. 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

d. None of the above

12. Given the algebraic expression y=ax ³ +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. $y = (a * x) * x * (x + 7);$	
13. 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	
14. Consider the following code and select which error needs correction	
while (c <= 5)	
cin< <c;< th=""><th></th></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	
15. Every class definition contains the keyword followed immediately by	
the class's name.	
a. Class	
b. Float	
c. Datatype	
d. function	
16. 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	
7 Fach parameter in a function handon should be set to be up to	
7. Each parameter in a function header should specify both a(n) and a(n)	
a. Scope, name	
b. Type, name	
c. Access specifier, type	
d. Void, operator	
3. When each object of a class maintains is own copy of an attribute, the variable that	
represents the attribute is also known as a(n)	
a. Data type	
Treas specific	
c. Data member	
d. Object	

1	9. Retur	n type	indicates that a function will perform a task b	ut will not	
	returi	n any information wh	en it completes its task		
		Void			
	b.	Object			
	c.	Int			
	d.	string			
20	. The ke	yword public is a(n).			
		Class			
	b.	Data type			
	c.	Object			
	d.	Access specifier			
SECTIO	NB: AN	SWER ALL (20MARK	(S) - 30MIN		
Answer	True or	False to each of the	questions in this section and explain the reas	con if your	
answer	is false.		in this section and explain the reas	ion ij your	
1 1					
2. (every C-	+ program begins ex	recution at the function main		
2. (2. C++ considers the variables number and NuMbEr to be identical. (2marks)				
3. (3. Comments are used to document a program and improve its readability (2 marks)				
4, 1	4. There should be a semicolon after the parenthesis of an if statement				
5. T	he defa	ult case is required in	n the switch selection statement.	(2marks)	
6 T	ha hran	le		(Elliains)	

The break statement is required in the default case of a switch selectionstatement to

7. A variable that is known only within the function in which it is defined is called a local

All arguments to function calls in C++ are passed by value

9. An array subscript should normally be of data type float

10. An array can store many different types of values.

exit the switch properly.

variable.

(2marks)

(2marks)

(2marks)

(2marks)

(2marks)