Patualholi science and Technology University

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Course CIT 111

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Assignment: 04

Title: Chapters of (theony)

Chapters 4

MULTIPLE CHOICE QUESTIONS

4.1 which of the following is not an anithmetic openators?

Ano: (d) All of the above are arrithmetic opendous.

4.2 Which of the following is an assignment operators?

Ann: (a) =

4.3 which of the following statement is concrect about the increment and decrement operator.?

Ami(d) All the above aree corcrect.

4.4 Which of the following operators has the lowest

And: (d) ? =

4.5 which of the following opercatores is used to determine the size of the opercand?

Ann: size of

" REVIEW QUESTIONS

- (a) The expression /(xxx) is same as the expression xxy [True]
- (b) A unarry expression consists of only one operand with no operators. [False]
- (e) All arithmetic operators have the same level of precedence. [False]
- (d) An expression statement is terzminated with a period [False]

(e) The operators <=,>= and != all enjoy the same level of prejorcity. [False] (f) The modulus operator 70 can be used only with

(8) In C, if a data item is zerro, it is considerced

(h) During the evaluation of mixed expressions, on implicit cast is generated automatically. [True]

(i) An explicit cost can be used to change the expression. [True]

(j) Associativity is used to decide which of seven different expressions is evaluated first. [True]

() Parcentheses can be used to change the order of evaluation expiressions, True

(1) During modulo division, the sign of the result is positive, if both the operands arce of the same size. True [Palse]

- 4.2 (1) The expression containing all the integers operands is called integers anotherwhich expression.
- (b) c supports as many as 6 relational
- (e) the size of operators returns the numbers of bytes the operand occupies.
- (d) Precedence is used to determine the order in which different operators in an expression are evaluated.
- (e) An expression that combines two or more relational expression is terromed as expression.
- (f) The use of casting on a varciable can be changed by using its type in memorcy.
- (9) The orders of evaluation can be changed by using prenthesis in an expression.
- have the highest and lowest Level , of precedence.

- (j) <= is a relational operator. while && is a legical operator.
- Openands truncates the resultant value. This situation can be avoided by using type casting.
- expression is either of a relational
- 4.3 Given the statement

 int a = 10, b=20, c;

 Determine whether each of the
 following statements are true and far
 - (a) The statement a=+10 is valid [False]
- (b) a+ 4/6 x 6/2 evaluates to 11 [False]
- (c) b+ 3/2 x 2/3 evalutes to 20 [True]

- (d) at 1 gives the values 30 to a arra 20 to b [True]

 (e) that t; gives the value 12 to a [False]

 (b) a = 1/b assign the value 0.5 to a [False]

 4.4 Declared a as int and b as floot
- 4.4 Declared a as int and b as float, state whether the following statements are true or f.
 - (a) a = 1/3 + 1/3 + 1/3; assigns. 1 to a [False] (b) b = 1.0/3.0 + 1.0/3.0 + 1.0/3.0; 1.0 to b [True]
 - (e) b= 1.0/3.0 \ 3.0 ; 1.0 to b [True]
 - (d) b= 1.0/3.0 + 2.0/3.0; 31.0 to b [True]
- (e) a=15/10.0+3/2; 3 to a [Talse]
- 4.5 Which of the tollowing expressions are true?

 (a): (5+5>=10) Falso 1
 - (a) ! (5+5)=20 [False] (b) 5+5=2=20111+3==5 [True]
 - (e) 5> 10 11 10× 20 · & & 3<5 [True]
 - (d) 10:= 15 & & !(10<20) 4 15>30. [Wse]
 - 4.6 Anithmetic expressions

 (a) 25/3 %2 $\rightarrow 0$ (b) + 9/4 + 5 $\rightarrow Z$

4.7 c assignment statements

4.8 Unnecessary parentheses

4.9 Determine the volue of each of the following togical expressions if a=5, b=10 and

(a) a>b && a<c [folse]

(b) acb & & a>c [True]

(e) a == e 11 b) a [True].

(d) 6> 15 &&.c &< 0 11 1>0 [True]

(e) (a/2.0 == 0.0 & & b/2.0 != 0.0) 11 & < 0.0 [True]

4.10 Amn: d
3
100

4.11 Ann: 110 112

4.12 Ann: 1

4.13 Amo: 200

4.14 Anni n <= y

Here the first condition will only be executed if n is greater than y. But here both of them are same, so the else paret is executed.

Because instead of comparining the value of n n is being assigned 20.

4.16 2 1 4

917 -40

DEBUGGING EXECISES

4.1 most is the errors of any in the following segment?

int x= 10; float y = 4.25; x= y %x;

Anni Am Modulo division can only be applied among integers. Here y is a float point so it can needs to be convented to integer like,

72 y % (int) x;

A.2 if (m== 1 & n!=0)

printf("OK");

Ann: One amperesand (&) is missing. At should be like,

if (m==1 && n!=0)

153(b) if (n 2 < 5)

print (" Jump");

Amo: Hene the wrong condit relational operators is used (= 1) is instead of (=)

At should be,

if (x <= 5)

4.3 (a) 71 = y = Z = 0.5, 2.0, -5.75;

Anno: Error. We have to declare assign.

Separately,

N=0.5, Y=2.0, Z=-5.75;

(d) P * = n/y;

Ann: There is no space between & and =

(e) 5 = 15;

Ann: 5/25;

(f) a = b++ -c * 2

Ami ; (semicolon) missing,

ALL what will be the values of a and I ofther following statements are executed?

And The value of a will be 10. First

And The value of a will be some time

Are to and it to be it at the same time

fore the nest two so yo 5+3+7. Thus

4.2 Evaluate the result fore the following logical expression; ! (1 88! (011 1))

Amo! The ordered will be].

State of the

4.3 What is I value?

When will be 19

Ann: The vertical barz is the bitwise of operators. It is used to perchang a bitwise of operator.

4.4 What is the difference between I and 11

Anni & the ventical barz is the bitwise or operator. while the 11 is the logical or operator.

4.5 Write a code for swapping two variable values without using a third variable:

Amo;

include <stdio, h>

ind main ()

printf ("Entere the values of n and y: "); scanf (" Tod Tod", & n, &y);

printf ("Beforce swapping n= 90d, y= 70d/n", n,y);

M= N+43

y = x-8;

7 = x - y;

return 0;

5

 $\frac{4.6}{100}$ What would be the value of b.

Mut a=5, b;

b= ++a + ++a;

Am: 6 will be 13 (6+7)