DEPARTMENT OF INFORMATION TECHNOLOGY EDUCATION

CIT 112: PRINCIPLES OF PROGRAMMING

MIDSEMESTER EXAM(Weekend)

30MINS

Ν	а	m	e

MULTIPLE CHOICE. Choose the one alternative that best completes the statement or answers the question.

- 1) Variables are classified according to their:
 - A) names
 - B) location in the program
 - C) data type D) value
- 2) What does the following code print to the screen?

Display "hello";

- A) HELLO
- B) Hello
- C) nothing
- D) hello
- 3) How many times will the following loop iterate?

Set k = 1
VMhile k > 5
Display k
End While

- A) Two
- B) One
- C) Infinite
- D) No iteraåons
- \mathbb{E}) Five
- 4) How many times would the following loop iterate?

Set k= 1

While k <= 5 Display k

Set k —

End While

C) infinte

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NL)EX N<sup>o</sup>•:_______

What is the first step of the program
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- 5) What is the first step of the program development cycle?
- A) Design the program
- B) Test the executable code
- C) Debug the code
- D) Correct syntax errors E) Write the code
- 6) What will be the value of x after the following code is executed?

Declare integer x = *while (x < 100)

(10;

- A) 100 B) 90 C) 110
- D) This is an infinite loop.
- 7) Which of the following expressions will

determine whether x is less than or equal to y?

 $A) \times Y$

B) x <= y

C) x = < y

- D) x >= y
- 8) How many times will the following loop iterate?

Set k = 1

While k < = 5

Display k End

While

- A) Five
- B) Infinite
- C) No iterations
- D) Three
- E) Two

9) is the value of x after the following

statements?

Declare integer x; set x = 1; set x = x + 30;

- A) 31
- B) 33
- C) 29
- 10) V&tat type of operators are he foüowing?
 - A) Bfatematical
 - B) Bcolean
 - C) Relahcnzi
 - D) Log:cal
 - E) None of free above
- 11) Tae foU0', ving is an example of what type of statement

Set rate

- = 5.75 **A)**
- Ass1Ftnent B)

Outpu:

- C) Declaraåon
- D) Input
- E) None of the above
- How many times v,ould the following loop iterate?

Set k -1

13) What will be the values of ar,s, x, and y after the following statements are executed?

Declare integer ans=35, x=S0, y=s ^{r}u ; if (z y) Then

ans =
$$x + 10$$
;
 $x = x - y$;

ans =
$$Y + 10$$
;
 $y = y + x$;

end if

A) ans =
$$60$$
, x = 50 , y -100

- B) ans = 60, y=50
- C) ans = 45, x = 50, y = 0
- D) ans = 45, 7. = 50, y = 50
- 14) The following is an example of an instruction written in which computer language?

 10110000
 - B) Machine language
 - D) Assembly language
 - E) JAVA



A CLOSER LOOK AT 6 COMMON IT ROLES/CAREERS

WEB DEVELOPER SOFTWARE DEVELOPER INFORMATION SECURITY ANALYSTS COMPUTER NETWORK ARCHITECTS DATABASE ADMINISTRATOR AND ARCHITECTS NETWORK AND COMPUTER SYSTEMS ADMINISTRATORS





AMPOMAH PETER

INFOTESS @HEART

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15) What will the
    following segment of
    code output if the
    value 20 is entered
    at the keyboard?
     Declare Integer number;
Display " Enter a number"
      Input number ;
  if number > 0 Then
       Display "Tennis";
       Display "Soccer";
       Display
                 is";
       Display " fun"
  ; end if
   A)
                        B)
                      Tennis
     Soccer
      is fun
                           D)
   C) is fun
                    Soccerfun
16) What will be the value of
    bonus after the following
    code is executed?
   Declare integer bonus, sales -
   10000;
   if (sales < Then
     5000) bonus -
     - 200;
   else if (sales < 7500)
       nus= 500;
   else if (sales <10000)
     bonus = 750;
   else if (sales 20000)
   < bonus - 1000;
   else bonus =
   1250; end if
    A) 200
```

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else bonus =
1250; end if

A) 200
B) 750
C) 1000
D) 1250
E) 500

17) What will be the value of x after the following code is executed?

Declare integer x do
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x - x + 20;
   while (x > 5);
     A) This is an infinite loop.
     C) The loop will not be
     executed, the initial value
     of x > 5. D) 200
18)
     What is the value of ans after
     the following code has been
     executed?
    Declare integer x 35; Declare
    integer y - , ans = 80; if (x <
    y) Then ans y; end if
     A) 55 B) 100 C) 35 D) 80
19) How many times will the following
     do-wh i le loop be executed?
    Declare integer x = 26;do
       x = x + 20;
```

ESSAY. Write your answer in the space provided or on a separate sheet of paper.

) while (x > 100);

20) Design a modular program that asks the user to enter a distance in kilometers, and then converts that distance to miles. The

conversion formula is as follows: Mile.

Kilometers \times 0.6214

21) Write pseudocode to accept the age of a candidate. If the age entered is 18 or above, the message, "You are eligible to vote" should be displayed. If the age entered is below 18, message, "You are not eligible to vote" should be displayed.

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