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INTERDICTION TO THE PYTHON PROGRAM CHAPTER 3

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ISE FIRST CLASS UNIT THREE HOME WORK FOR USTAD POHAND MOHAMAD GHARANI

MULTIPLE CHOICE QUESTIONS

1. _____ CONTROL STATEMENT REPEATEDLY EXECUTES A SET OF STATEMENTS.

A. ITERATIVE
B. CONDITIONAL
C. MULTI-WAY
D. ALL OF THESE

2. DEDUCE THE OUTPUT OF THE FOLLOWING CODE.

```
IF FALSE AND FALSE:
PRINT("AND OPERATION")
ELIF TRUE OR FALSE:
PRINT("OR OPERATION")
ELSE:
PRINT("DEFAULT CASE")
```

A. AND OPERATION
B. OR OPERATION
C. DEFAULT CASE
D. B AND C OPTION

3. PREDICT THE OUTPUT OF THE FOLLOWING CODE.

```
I = 1
WHILE TRUE:
IF I%2 == 0:
BREAK
PRINT(I)
I += 1
```

A. 1
B. 12

C. 123
D. NONE OF THESE

4. WHICH KEYWORD IS USED TO TAKE THE CONTROL TO THE BEGINNING OF THE LOOP?

A. EXIT
B. BREAK
C. CONTINUE
D. NONE OF THESE

5. THE STEP ARGUMENT IN RANGE() FUNCTION _____.

A. INDICATES THE BEGINNING OF THE SEQUENCE
B. INDICATES THE END OF THE SEQUENCE
C. INDICATES THE DIFFERENCE BETWEEN EVERY TWO CONSECUTIVE NUMBERS IN THE
SEQUENCE
D. GENERATES NUMBERS UP TO A SPECIFIED VALUE91

6. THE SYMBOL THAT IS PLACED AT THE END OF IF CONDITION IS

A. ;
B. :
C. &
D. ~

7. WHAT IS THE KEYWORD THAT IS USED TO COME OUT OF A LOOP ONLY FOR THAT ITERATION?

A. BREAK
B. RETURN
C. CONTINUE
D. IF

8. JUDGE THE OUTPUT OF THE FOLLOWING CODE SNIPPET.

FOR I IN RANGE(10):
IF I == 5:
BREAK
ELSE:
PRINT(I)
A. 0 1 2 3 4
B. 0 1 2 3 4 5
C. 0 1 2 3
D. 1 2 3 4 5

9. PREDICT THE OUTPUT OF THE FOLLOWING CODE SNIPPET.

WHILE TRUE:
PRINT(TRUE)
BREAK
A. TRUE
B. FALSE
C. NONE

D. SYNTAX ERROR

10. THE OUTPUT OF THE BELOW EXPRESSION IS >>>10 * (1/0).
A. OVERFLOWERROR
B. ZERODIVISIONERROR
C. NAMEERROR
D. TYPEERROR

11. HOW MANY EXCEPT STATEMENTS CAN A TRY-EXCEPT BLOCK HAVE?
A. ZERO
B. ONE
C. MORE THAN ONE
D. MORE THAN ZERO92

12. WHEN WILL THE ELSE PART OF THE TRY-EXCEPT-ELSE BE EXECUTED?
A. ALWAYS
B. WHEN AN EXCEPTION OCCURS
C. WHEN NO EXCEPTION OCCURS
D. WHEN AN EXCEPTION OCCURS IN A TRY BLOCK

13. WHEN IS THE FINALLY BLOCK EXECUTED?
A. WHEN AN EXCEPTION OCCURS
B. WHEN THERE IS NO EXCEPTION
C. ONLY IF SOME CONDITION THAT HAS BEEN SPECIFIED IS SATISFIED
D. ALWAYS

14. THE KEYWORD THAT IS NOT USED AS AN EXCEPTION HANDLING IN PYTHON?
A. TRY
B. EXCEPT
C. ACCEPT
D. FINALLY

15. AN EXCEPTION IS
A. A OBJECT
B. A SPECIAL FUNCTION
C. A SPECIAL MODULE
D. A MODULE

16. THE SET OF STATEMENTS THAT WILL BE EXECUTED WHETHER AN EXCEPTION IS THROWN OR NOT?
A. EXCEPT
B. ELSE
C. FINALLY
D. ASSERT

17. PREDICT THE OUTPUT OF THE FOLLOWING CODE SNIPPET.
WHILE TRUE

PRINT("HELLO WORLD")
A. SYNTAX ERROR
B. LOGICAL ERROR
C. RUN-TIME ERROR
D. NONE OF THESE

18. GAUGE THE OUTPUT OF THE FOLLOWING STATEMENT?
INT("65.43")
A. IMPORT ERROR
B. VALUE ERROR
C. TYPE ERROR
D. NAME ERROR93

19. THE ERROR THAT IS NOT A STANDARD EXCEPTION IN PYTHON.
A. NAME ERROR
B. ASSIGNMENT ERROR
C. IO ERROR
D. VALUE ERROR

20. THE FUNCTION THAT GENERATES A SEQUENCE OF NUMBERS WHICH CAN BE ITERATED THROUGH USING FOR LOOP.
A. INPUT0
B. RANGE0
C. LIST0
D. RAW_INPUT0

21. WHAT IS THE OUTPUT OF THE FOLLOWING CODE SNIPPET?
X = 'ABCD'
FOR I IN X:
PRINT(I)
A. ABCD
B. 0 1 2 3
C. IIIII
D. TRACEBACK

22. THE FUNCTION OF WHILE LOOP IS
A. REPEAT A CHUNK OF CODE A GIVEN NUMBER OF TIMES.
B. REPEAT A CHUNK OF CODE UNTIL A CONDITION IS TRUE.
C. REPEAT A CHUNK OF CODE UNTIL A CONDITION IS FALSE.
D. REPEAT A CHUNK OF CODE INDEFINITELY.

REVIEW QUESTIONS :

1. BRIEFLY EXPLAIN THE CONDITIONAL STATEMENTS AVAILABLE IN PYTHON.
ANSWERS:

2. EXPLAIN THE SYNTAX OF FOR LOOP WITH AN EXAMPLE.
ANSWERS:

3. WHAT IS THE PURPOSE OF USING BREAK AND CONTINUE?
ANSWERS:

4. DIFFERENTIATE THE SYNTAX OF IF...ELSE AND IF...ELIF...ELSE WITH AN EXAMPLE.
ANSWERS:

5. EXPLAIN THE USE OF RANGE0 FUNCTION WITH AN EXAMPLE.
ANSWERS:

6. WHY WOULD YOU USE A TRY-EXCEPT STATEMENT IN A PROGRAM?
ANSWERS:

7. EXPLAIN THE SYNTAX OF WHILE LOOP WITH AN EXAMPLE.
ANSWERS:

8. DIFFERENTIATE BETWEEN SYNTAX ERROR AND AN EXCEPTION.
ANSWERS:

9. EXPLAIN THE SYNTAX OF THE TRY-EXCEPT-FINALLY BLOCK.94
ANSWERS:

10. WRITE A PROGRAM TO READ THE RICHTER MAGNITUDE VALUE FROM THE USER AND DISPLAY THE RESULT FOR THE FOLLOWING CONDITIONS USING IF...ELIF...ELSE STATEMENT.
RICHTER MAGNITUDE
INFORMATION

> 1.0 AND < 2.0
MICROEARTHQUAKES NOT FELT OR RARELY FELT
> 2.0 AND < 4.0
VERY RARELY CAUSES DAMAGE
> 4.0 AND < 5.0
DAMAGE DONE TO WEAK BUILDINGS
> 5.0 AND < 6.0
CAUSE DAMAGE TO THE POORLY CONSTRUCTED BUILDING
> 6.0 AND < 7.0
CAUSES DAMAGE TO WELL-BUILT STRUCTURES
> 7.0 AND < 8.0
CAUSES DAMAGE TO MOST BUILDINGS
> 8.0 AND < 9.0
CAUSES MAJOR DESTRUCTION
> 9.0
CAUSES UNBELIEVABLE DAMAGE
ANSWERS:

11. WRITE A PROGRAM TO DISPLAY PASCAL'S TRIANGLE.
ANSWERS:

12. WRITE A PROGRAM TO DISPLAY THE FOLLOWING PATTERN USING NESTED LOOPS.
1
1
22
21
333
321
4444
4321
55555
54321
ANSWERS:

13. WRITE A PROGRAM THAT USES A WHILE LOOP TO ADD UP ALL THE EVEN NUMBERS BETWEEN
100 AND 200.
ANSWERS:

14. WRITE A PROGRAM TO PRINT THE SUM OF THE FOLLOWING SERIES
A. $1 + \frac{1}{2} + 1/3 + \ldots + 1/N$
B. $1/1 + 2_2/2 + 3_3/3 + \ldots + N_N/N$
ANSWERS:

15. WRITE A PROGRAM TO FIND THE DEPRECIATION VALUE OF AN ASSET(PROPERTY) BY READING
THE PURCHASE VALUE OF THE ASSET (AMT), YEAR OF THE SERVICE (YEAR) AND THE VALUE OF DEPRECIATION.
ANSWERS: