

(b) hon

(c) yth

(d) oht

- 1-d. A variable can be removed by using which keyword. [CO2] 1
- (a) remove
 - (b) clear
 - (c) del
 - (d) delete
- 1-e. What will be the output of the following Python code? [CO3] 1
- ```
def printMax(a, b):
 if a > b:
 print(a, 'is maximum')
 elif a == b:
 print(a, 'is equal to', b)
 else:
 print(b, 'is maximum')
printMax(3, 4)
```
- (a) 3
  - (b) 4
  - (c) 4 is maximum
  - (d) 3 is maximum
- 1-f. Which are the advantages of functions in python? [CO3] 1
- (a) Reducing duplication of code
  - (b) Decomposing complex problems into simpler pieces
  - (c) Improving clarity of the code
  - (d) All of the mentioned
- 1-g. What will be the output of the following Python Code? [CO4] 1
- ```
L1=[1,2,3]  
L2=[4,5,6]  
[x*y for x in L1 for y in L2]
```
- (a) [4, 8, 12, 5, 10, 15, 6, 12, 18]
 - (b) [4, 10, 18]
 - (c) [4, 5, 6, 8, 10, 12, 12, 15, 18]
 - (d) [18, 12, 6, 15, 10, 5, 12, 8, 4]

- 1-h. What will be the output of the following Python Code? [CO4] 1
- ```
L1=[2,4,6]
L2=[-2,-4,-6]
for i in zip(L1, L2):
print(i)
```
- (a) 2,-2  
4.-4  
6,-6  
(b) [(2, -2), (4, -4), (6, -6)]  
(c) (2,-2)  
(4.-4)  
(6,-6)  
(d) [-4, -16, -36]
- 1-i. If no exception occurs, then\_\_\_\_\_block is skipped. [CO5] 1
- (a) try  
(b) except  
(c) else  
(d) finally
- 1-j. Which block will be executed always in exception handling. [CO5] 1
- (a) try  
(b) except  
(c) finally  
(d) else

**2. Attempt all parts:-**

- 2.a. Define operators in python. [CO1] 2
- 2.b. Print series 1,2,3,4,6,7,8,10 using continue. [CO2] 2
- 2.c. What is the use of the return statement. [CO3] 2
- 2.d. Write a python program to find length of word in a string . [CO4] 2
- 2.e. When "NameError" Occurs in python program? Give example. (CO5) 2

**SECTION B**

**30**

**3. Answer any five of the following:-**

- 3-a. Define an algorithm. How it is useful in the context of software development? [CO1] 6
- 3-b. Differentiate among Assembler, Compiler and Interpreter. [CO1] 6

- 3-c. Write a program to determine whether a digit, uppercase or lower case is entered.[CO2] 6
- 3-d. Write a Python Programs to print following patterns: [CO2] 6  
 A  
 B C  
 D E F  
 G H I J  
 K L M N O
- 3.e. Write a function that takes a number as a parameter and check the number is prime or not. 6
- 3.f. Differentiate between the following methods of list using example: [CO4] 6  
 a) append() and extend()  
 b) pop() and remove()
- 3.g. Describe different types of errors in programming language. [CO5] 6

### SECTION C

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#### 4. Answer any one of the following:-

- 4-a. Draw a flow chart and write algorithms to find sum of cubes of all digits of a number. Also write down all symbols used in flow chart with their purpose.[CO1] 10
- 4-b. Write a python program to illustrate all Bitwise operators. Also, show the expected output.[CO1] 10

#### 5. Answer any one of the following:-

- 5-a. What is palindrome number?Write a Python Program to check if a number is Palindrome or not.(Without using function) [CO2] 10
- 5-b. Write a Python Programs to print following patterns: [CO2] 10  
 \*  
 \*\*\*  
 \*\*\*\*\*  
 \*\*\*\*\*  
 \*\*\*\*\*  
 \*\*\*  
 \*

#### 6. Answer any one of the following:-

- 6-a. Explain recursion. Write a program to reverse a string using recursion. (CO3) 10
- 6-b. What are packages? Give an example of package creation in Python. Write a 10

small code to illustrate the use of package in Python. (CO3)

**7. Answer any one of the following:-**

- 7-a. Explain the slicing, indexing and concatenation operation in list with example. 10  
[CO4]
- 7-b. Differentiate between the following methods of set using example: [CO4] 10  
a) difference() and difference\_update()  
b) union() and update()

**8. Answer any one of the following:-**

- 8-a. Describe the multiple exceptions in python with a suitable example. Explain the role of else and finally block in exception handling. [CO5] 10
- 8-b. Discuss Exceptions and Assertions in python. How to handle Exceptions with Try-Except? Explain 5 Built-in Exceptions with example. [CO5] 10

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