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| **KLS GIT Dept of CSE Internal Assessment Test I**  **Academic Year: 2018-2019 Sub: Python Programming Code: 10CS661 Sem: VI(Open Elective) Date:10/04/19 Max. Marks: 25 Dur:1 Hr Answer any 2: 12.5 mks each. *Good Luck* ☺ )** |
| 1. Explain with a neat diagram how python compiles and runs source code. Develop a python program for processing of test score entries. The pseudocode is as below:  Get test score  IF score is from 0 to 100  add score to total score  add 1 to the number of scores  ELSE IF score = 999  print end of program message  ELSE  print error message (**12.5M** Level [1,3], CO [1], PO [1])  2. What is a list and how do you create it? How to use append, insert and remove items to/ from a list? Explain with suitable examples. Develop a python program to reverse an array using any loop. Do not use any extra array.  (**12.5M** Level [1,2], CO [1], PO [1])  3. Why python is a great first language and explain 3 of its applications. Initialize an array from 1 to 100. Count the number of square numbers in an array.(Example 1,4,9…….)  (**12.5M** Level [1,2], CO [1], PO [1]) |

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QUIZ: For questions below(except 4) find the output of the code below.

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| #1  x = [‘ab’, ‘cd’]  for i in x:  i.upper()  print(x)  a) [‘ab’, ‘cd’]  b) [‘AB’, ‘CD’]  c) [None, None]  d) none of the above | #2  x = "abcdef"  i = "a"  while i in x:  print(i)  a) prints a infinitely  c) no output b) prints i infinitely d) a b c d e f | #3  x = [‘ab’, ‘cd’]  for i in x: x.append(i.upper())  print(x)  a) none of the below b) [‘ab’, ‘cd’, ‘AB’, ‘CD’] c) [‘ab’, ‘cd’] d)[‘AB’, ‘CD’] | #4  What arithmetic operators can be used with strings?  a) +  b) \*  c) –  d) All | #5  i = 1  for i in range(4):  if i%3 == 0:  break  print(i)  i += 1  a) None  b) 1 2  c) 1 1  d) 0 1 |
| #6  i = 1  while True:  if i%3 == 0:  break  print(i)    i += 1  a) 1 2 b) 1 2 3 c) error d) none of the above | #7  i=0  def change(i):  i=i+1  return i  change(1)  print(i)  a) 0  b) Nothing is displayed  c)1 d) error | #8  c=[]  def a(b):  b = b + [5]    c = [1, 2, 3, 4]  a(c)  print(len(c)//len:gives //length of array  a) 0 b) None c) 1 d) error | #9  i = 0  while i < 3:  print(i)  i += 1  else:  print(0)  a) 0 1 2 0  b)0 1 2 3 0 c) None d) error | #10  What is the output of the following?  x = "abcdef"  i = "a"  while i in x:  print('i')  (Fill in blank)\_\_\_\_\_\_\_\_ |