

P.E.S. College of Engineering, Mandya - 571 401

(An Autonomous Institution affiliated to VTU, Belagavi)

Eighth Semester, B.E. - Computer Science and Engineering

Semester End Examination; Aug. / Sep. - 2020

Python Programming
Time: 3 hrs
Note: i) Answer TWO full questions, selecting ONE full question from UNIT - I and UNIT - II. ii) Answer any THREE full questions, choosing from UNIT - III, UNIT - IV and UNIT - V. UNIT - I
Discuss the applications of python programming language.
Write a program to read array of 'n' elements. Split this array into odd array which contains only odd elements and even array which contained only even elements.
Write a python program to accept three distinct digits and print all possible combinations from the digits.
\mathbf{OR}
Write a program to calculate the sum of three given numbers. If the values are equal then return thrice of their sum.
Discuss the features of python.
Write a program to prompt users to enter numbers. The process will repeat until user enters -1. Finally, the program prints the count of prime and composite numbers entered.
UNIT - II
Write a python program to read a number get same number of (non negative integer) copies
for the first 2 characters of a given string. Return the 'n' copies of the whole string, if the
length is less than 2. Use Lambda function.
Write a python program to determine whether the number is Armstrong or not?
[Example: $153 = 1^3 + 5^3 + 3^3$ is an Armstrong number].
List and explain any six built in string methods with example.
OR
Write a python program to count the occurrences of each word in a given string sentence.
Write a program to remove the characters which have odd index values of a given string.
Explain the string comparison operators.
With example, explain Lambda function.
UNIT - III
Write a program to count the number of words in a text file.
Write a program to remove the i^{th} occureance of the given word in the list where words can repeat.
List and explain any six opertions in the set data structures.