

Roll No. _____

Section _____

National University of Computer and Emerging Sciences, Lahore Campus

Course: Introduction to Cloud Computing
Program: BS -Computer Science
Duration: 60 Minutes
Paper Date: 02-Nov-17
Section: N/A
Exam: Mid 2

Course Code: CS-499
Semester: Fall 2017
Total Marks: 40
Weight: 15%
Page(s): 1
Reg. No.

Instruction/Notes: -Please answer all the questions on the answer book provided.

1-Write the Map Reduce pseudo code which would count number of words in a document? Explain how Map Reduce works.

Marks 10

2-Which Cloud Mechanism can logically combine Cloud-based IT resources that are geographically diverse to improve their allocation and use? State the Mechanism name and explain how it works.

Marks 10

3-How would you manage billing of customers in a cloud environment. Please explain the different components used and draw a diagram to support the explanation.

Marks 10

4- A maintenance update has to be done on the servers providing your customers a cloud service. You cannot scale in or out on redundant implementations. Given this constraint, explain which architecture can you use to give your customers uninterrupted services. Please draw diagrams to explain your solution.

Marks 10