CBCS SCHEME

15CS565

Semester B.E. Degree Examination, **June/July 2019**
Cloud Computing

Time: 3 hrs.   Max. Marks: 80

Note: Answer any **FIVE full questions,** choosing ONE full question from each module.

Module-I

1   a. Define cloud computing. Describe the vision introduced by cloud computing.   (04 Marks)
   b. Briefly summarize the cloud computing Reference model.   (04 Marks)
   c. Describe the characteristics and benefits of cloud computing.   (08 Marks)

OR

2 a. What is virtualization? What are the characteristics of virtualized environments'?   (08 Marks)
  b. What are the pros and cons of virtualization in the context of cloud computing?   (08 Marks)

Module-2

3 a. What are the essential characteristics that identify a PaaS solution?   (04 Marks)
   b.   What are the benefits of community cloud?   (04 **Marks**)
   c.   Discuss the open challenges in cloud computing?   **(08 Marks)**

OR

4   a. Explain the three service installed in Aneka container.   **(08 Marks)**
    b. Discuss infrastructure and logical organization of an Aneka cloud.   **(08 Marks)**

Module-3

5 a. What are two major techniques used to define parallel implementation of computer
      algorithm? Explain.   **(04 Marks)**
   b.   Describe how to implement a parallel matrix scalar product by using **Domain**
       decomposition.   **(04 Marks)**
   c.   Bring out the differences between Aneka threads and local threads.   **(08 Marks)**

OR

6 a. Define a Task. Explain the computing categories that relate to task.   **(08 Marks)**
   b. What are the features provided by Aneka for developing a parameter sweep application?
                                                                                           (08 Marks)

Module-4

7   a. What is data — intensive computing? What are the open challenges in data intensive
    b.   computing.   **(04 Marks)**
    c.   Describe the architecture of Google File system.   **(04 Marks)**
        What is MapReduce programming model? Describe the kinds of problems that MapReduce
        can solve.   **(08 Marks)**

OR

8   a. Bring out the differences between original MapReduce model and MapReduce — line
       frameworks.   **(08 Marks)**
    b. Describe the components of the scheduling and execution service that constitute the runtime
       infrastructure supporting MapReduce.   **(08 Marks)**

15CS565

Module-5

9 a. What is AWS? What types of service does it provide? **(04 Marks)**

   b. Describe the application services of AppEngine. **(04 Marks)**

   c. What is Microsoft Azure? Describe the architecture of Microsoft azure. **(08 Marks)**

OR

10 a. Describe how cloud computing technology can be applied to support remote ECG Monitoring. **(08 Marks)**

   b. Provide some examples and media application that use cloud technologies and explain. **(08 Marks)**