**Reg. No. \_\_\_\_\_\_\_\_**

**Karunya University**

**(Karunya Institute of Technology and Sciences)**

(Declared as Deemed to be University under Sec.3 of the UGC Act, 1956)

**End Semester Examination – November/ December - 2016**

**Subject Title: CLOUD COMPUTING Time : 3 hours**

**Subject Code: 14CS3052 Maximum Marks: 100**

**Answer ALL questions (5 x 20 = 100 Marks)**

1. **Compulsory**

a. Grid computing is often confused with Cloud Computing. In what aspect are they different? Justify your findings with examples. (10)

b. List the common services delivered over the cloud. Describe its key characteristics and benefits with necessary applications. (10)

2. Airport Nuremberg needed a flexible and scalable website to handle demand during peak periods. Info park GA, an AWS partner, used AWS to deliver a highly available and secure website for Airport Nuremberg. The airport estimates saving 60-70% compared to previous web hosting costs. Explain the features and characteristics of how Amazons Web Service is helpful in developing a solution to their problem? (20)

(OR)

3. Which technology in Cloud reduces the Hardware acquisition and maintenance costs which result in significant savings for any company? With examples explain CPU Virtualization, Storage virtualization and Network virtualization? (20)

4. Discuss in detail about the following security issues:

a. Cloud Security Challenges. (7)

b. Security Architecture Design. (7)

c. password assurance testing. (6) (OR)

5. Discuss about the basics for protecting data privacy in a virtualized environment, the cloud,

or on a static machine. (20)

6. What are the standards for security in the cloud? (20)

(OR)

7. Elucidate the various standards for messaging in Cloud? (20)

8. Explain the Hadoop Distributed File System and its architecture in detail? (20)

(OR)

9. Discuss Facebook, ZCS, and Zoho developments with respect to cloud. (20)