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



**UNIVERSITY**

(Karunya Institute of Technology & Sciences)

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

**End Semester Examination – April/May– 2017**

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| **Sub. Code:** | **14CS3052** | **Duration :** | **3hrs** |
| **Sub. Name :** | **CLOUD COMPUTING** | **Max. marks :** | **100** |

**ANSWER ALL QUESTIONS (5 x 20 = 100 Marks)**

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| Q. No. | Sub Div. | Questions | Course  Outcome | Marks |
| 1. | a. | Compare and contrast Grid Computing and Cloud Computing. | CO1 | 10 |
| b. | Which technology in Cloud reduces the Hardware acquisition and maintenance costs which result in significant savings for any company? With examples explain Processor Virtualization and Storage virtualization. | CO1 | 10 |
| (OR) | | | | |
| 2. | a. | Justify that Platform-as-a-Service is beneficial than the traditional approach of building on- premises applications and list the key characteristics of Platform-as-a-Service (PaaS). | CO3 | 10 |
| b. | What is Cloud Computing? Bring out the emergence and global nature of the Cloud Computing technology. | CO1 | 10 |
| 3. |  | Explain the various Amazon web services that are integrated with Amazon EC2. | CO2 | 20 |
| (OR) | | | | |
| 4. |  | Companies that need to bring a service to market quickly, have less regulatory hurdles to overcome, or are looking to outsource part or all of their organizational IT requirements. Under this scenario, the business can simply sign-up for and start using Cloud Computing, online storage and other services immediately. What model will you adapt?  Businesses that must comply with strict regulations or that have highly critical applications. What model will you adapt?  E-commerce sites must respond to fluctuations in traffic both on a daily and seasonal cycle, the actual work of processing the orders can benefit from the elastic characteristics of public cloud resources. On the other hand, legal regulations strictly govern how personal and payment information can be handled, and this type of sensitive data is more secure if it stays “on-premise” in the Private Cloud.  For this situation which model will be suitable? Justify all your models. | CO2 | 20 |
| 5. | a. | Security standards are based on a set of key principles intended to protect a trusted environment. List the protocols that are used for security in the cloud. | CO2 | 10 |
|  | b. | Write short notes on Password Assurance Testing and Security Architecture Design in cloud. | CO2 | 10 |
| (OR) | | | | |
| 6. |  | With a neat sketch elucidate the architecture and various services offered by the Microsoft Cloud Service. | CO2 | 20 |
| 7. |  | Discuss about the HTTP, SIMPLE and XMPP communication protocols used in cloud. | CO2 | 20 |
| (OR) | | | | |
| 8. | a. | In the cloud you lose control over assets in some aspects. Can you trust your data to your service provider? What are all the security challenges in the cloud? | CO2 | 10 |
|  | b. | What are the standards for application developers to develop Web Browsers, Data and Solution Stacks in a Cloud? | CO2 | 10 |
|  | | **Compulsory:** |  |  |
| 9. |  | Hadoop Distributed File System(HDFS) is a file system designed for storing very large files with streaming data access patterns, running on clusters of commodity hardware. Elucidate this by giving the features of HDFS. | CO3 | 20 |

ALL THE BEST