Registration No :					

Total Number of Pages: 02 MCA MCA505C

5th Semester Regular Examination 2019-20 CLOUD COMPUTING

BRANCH: MCA Max Marks: 100 Time: 3 Hours Q.CODE: HR327

Answer Question No.1 (Part-1) which is compulsory, any EIGHT from Part-II and any TWO from Part-III.

The figures in the right hand margin indicate marks.

Part-I

Q1 Only Short Answer Type Questions (Answer All-10)

(2 x 10)

- **a)** Will it be possible to provide Cloud services without Virtualization? Justify your answer.
- **b)** What is hypervisor and list its advantages.
- c) What do you mean by server consolidation?
- d) What is mobile cloud computing?
- e) Differentiate between inter cloud and intra cloud.
- f) List the pros and cons of cloud computing.
- g) What is utility computing?
- **h)** What is the role of Big Data in cloud computing?
- i) Assume your company wants to launch an e-commerce website. Which cloud services and deployment models will you consider for the website?
- j) Briefly summarize the challenges still open in cloud computing.

Part-II

Q2 Only Focused-Short Answer Type Questions- (Answer Any Eight out of Twelve) (6 x 8)

- a) Distinguish between laaS, PaaS and SaaS.
- **b)** Write notes on CPU Virtualization and its advantages.
- c) Explain the architectural design challenges in cloud computing?
- **d)** What is resource provisioning? Explain with suitable example.
- e) Explain the security architecture design with example.
- f) What are the fault tolerant mechanisms in cloud computing?
- **g)** What is integrated development environment? How it is related to PaaS application framework?
- h) Draw the SQL Azure architecture.
- i) Which are the basic components of an laaS-based solution for cloud computing? Explain.
- j) Explain the architecture of Force.com.
- **k)** What is the Windows Azure platform appliance? For which kinds of scenarios was this appliance designed?
- I) How security is different from privacy in the context of cloud computing?

Part-III

Only Long Answer Type Questions (Answer Any Two out of Four)

- Q3 Define Cloud computing. Enlist and explain essential characteristics of cloud computing. Explain the technologies behind cloud computing. Mention the scope and limitations of each technology.
- Compare the SOAP and REST paradigms in the context of programmatic (16) communication between applications deployed on different cloud providers, or between cloud applications and those deployed in-house.
- Explain about Amazon EC2 instances and its basic features. Compare and contrast Amazon EC2, Google App Engine and Microsoft Azure in the context of a Platform-as-a-Services.
- What is Windows Azure? Describe the architecture of Microsoft Windows Azure platform. How power and space requirement can be minimized using Cloud-based technologies.