Printed Pages: 02 **Sub Code: KCA014**

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Roll No.													

MCA
(SEM III) THEORY EXAMINATION 2022-23
CLOUD COMPUTING

Time: 3 Hours ***Total Marks: 100***

Note: Attempt all Sections. If you require any missing data, then choose suitably.

SECTION A

1. Attempt *all* questions in brief. 2x10 = 20

(a) Explain underlying principles of parallel and distributed computing.
(b) List features of Nimbus.
(c) Write down the key components of Microsoft Azure.
(d) List top vendors who are providing SaaS cloud computing environment.
(e) What do you mean by Groupware?
(f) What is Hunt calendar?
(g) What is the usage of virtualization platform in implementing cloud?
(h) Differentiate between Para virtualization and Full virtualization.
(i) Discuss about OCC.
(j) Explain the concept of testbed in reference to cloud computing.

SECTION B

2. Attempt any *three* of the following: 10x3 = 30

(a) Illustrate the importance of 5:3:4 model in reference to cloud computing with proper justification.
(b) Explain MaaS, DaaS, and CaaS in detail.
(c) Write short notes on:
i) Project Management ii) Web Based Word Processors
(d) Illustrate the virtual machine monitor and the properties of a virtual machine.
(e) Discuss standards available for web developers in reference to mitigate the security challenges in cloud computing.

SECTION C

3. Attempt any *one* part of the following: 10x1 = 10

(a) What do you mean by Cloud Computing? Discuss any one of the cloud architectures with necessary details.
(b) Show the concept of On-demand functionality. Illustrate its importance in cloud computing.

4. Attempt any *one* part of the following: 10x1 = 10

(a) Explain in detail the key components of Amazon AWS. Also analyze its importance in domain of Cloud Computing.
(b) "Salesforce is the world's number one cloud-based CRM platform", Illustrate your answer.

5. Attempt any *one* part of the following: 10x1 = 10

(a) Discuss about collaborating on calendars, schedules, and task management.
(b) How to create groups on social networks? Explain with example.

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6. **Attempt any *one* part of the following:** **10x1 = 10**

(a) Write short notes on:

(i) KVM
(ii) Virtual Box
(iii) XEN
(iv) Hyper-V
(v) VMware

(b) Describe in detail about hardware virtualization and server virtualization with diagram and examples.

7. **Attempt any *one* part of the following:** **10x1 = 10**

(a) "The cloud acts as a big black box, nothing inside the cloud is visible to the clients", express your views about the statement in reference to cloud computing.

(b) Explain GAE (Google App Engine) in detail.

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