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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**
- Explain underlying principles of parallel and distributed computing.
 - List features of Nimbus.
 - Write down the key components of Microsoft Azure.
 - List top vendors who are providing SaaS cloud computing environment.
 - What do you mean by Groupware?
 - What is Hunt calendar?
 - What is the usage of virtualization platform in implementing cloud?
 - Differentiate between Para virtualization and Full virtualization.
 - Discuss about OCC.
 - Explain the concept of testbed in reference to cloud computing.

SECTION B

- 2. Attempt any three of the following: 10x3 = 30**
- Illustrate the importance of 5:3:4 model in reference to cloud computing with proper justification.
 - Explain MaaS, DaaS, and CaaS in detail.
 - Write short notes on:
i) Project Management ii) Web Based Word Processors
 - Illustrate the virtual machine monitor and the properties of a virtual machine.
 - 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**
- What do you mean by Cloud Computing? Discuss any one of the cloud architectures with necessary details.
 - Show the concept of On-demand functionality. Illustrate its importance in cloud computing.
- 4. Attempt any one part of the following: 10x1 = 10**
- Explain in detail the key components of Amazon AWS. Also analyze its importance in domain of Cloud Computing.
 - “Salesforce is the world's number one cloud-based CRM platform”, Illustrate your answer.
- 5. Attempt any one part of the following: 10x1 = 10**
- Discuss about collaborating on calendars, schedules, and task management.
 - How to create groups on social networks? Explain with example.

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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