SPECIAL SUPPLE B.TECH/ECE/EE/7TH SEM/INFO 4182/2018

CLOUD COMPUTING (INFO 4182)

Time Allotted: 3 hrs Full Marks: 70

Figures out of the right margin indicate full marks.

Candidates are required to answer Group A and <u>any 5 (five)</u> from Group B to E, taking <u>at least one</u> from each group.

Candidates are required to give answer in their own words as far as practicable.

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	Group - A (Multiple Choice Type Questio	ns)		
Choo	ose the correct alternative for the following:	$10 \times 1 = 10$		
(i)	Which one of these is not a major type of cloud(a) Hardware as a Service(b) Platform as a Service(c) Software as a Service(d) Infrastructure as a Service.	d computing usage?		
(ii)	What is the number one concern about cloud (a) Too expensive (c) Too many platforms	computing at present? (b) Security concerns (d) Accessibility.		
(iii)	Which of these widely used services is technology? (a) Twitter (c) YouTube	ouilt on cloud-computing (b) Gmail (d) All of these.		
(iv)	Which deployment model of cloud comput business group, consisting of multiple compusers? (a) Community Cloud (c) Public Cloud			
(v)	Which programming language did Google development? (a) C++ (c) Java	include for App Engine (b) Flash (d) Visual Basic.		
	Choo (i) (ii) (iv)	Group - A (Multiple Choice Type Question) Choose the correct alternative for the following: (i) Which one of these is not a major type of cloud (a) Hardware as a Service (b) Platform as a Service (c) Software as a Service (d) Infrastructure as a Service. (ii) What is the number one concern about cloud (a) Too expensive (c) Too many platforms (iii) Which of these widely used services is the technology? (a) Twitter (c) YouTube (iv) Which deployment model of cloud comput business group, consisting of multiple compusers? (a) Community Cloud (c) Public Cloud (v) Which programming language did Google development? (a) C++		

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- (vi) Geographic distribution of data across a cloud provider's network is perceived as a major problem for many enterprises because it
 - (a) adds to latency
 - (b) makes data recovery harder
 - (c) complicates regulatory compliances
 - (d) heightens security concerns.
- (vii) Which deployment model of cloud computing is managed by a service provider which uses an infrastructure that is off-premises, and is accessible to the general users?
 - (a) Community Cloud

(b) Hybrid Cloud

(c) Private Cloud

(d) Public Cloud.

(viii) Which of these should a company consider before implementing cloud computing technologies?

(a) User satisfaction

(b) Potential cost reduction

(c) Information sensitivity

(d) All of these.

(ix) Point out the correct combination of cloud service provider and its cloud-based solution.

(a) Intuit and QuickBooks Online

(b) Google and AWS

(c) IBM and Azure

- (d) Microsoft and GWT.
- (x) Which one of these solutions is not considered to be a PaaS offering?

(a) Force.com

(b) Amazon EC2

(c) Microsoft Azure Services

(d) All of these.

Group - B

- 2. (a) What is Grid computing? Explain different types of Grid computing.
 - (b) Differentiate between Grid computing and Cloud computing

(2+6)+4=12

- 3. (a) Explain the concept of Utility Computing. How Cloud and Utility computing are different?
 - (b) What are the limitations of Cluster computing?

(6+3)+3=12

Group - C

4. Explain four deployment models of Cloud computing. Explain Network Function Virtualization architecture briefly.

(4 + 8) = 12

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- 5. (a) What is virtualization? Explain server virtualization briefly. Compare between SAN, NAS and DAS.
 - (b) Briefly explain Type1 Hypervisor and type2 Hypervisor.

$$(2+3+3)+4=12$$

Group - D

- 6. (a) Explain Google App Engine architecture.
 - (b) Explain different component of SOA model.

$$5 + 7 = 12$$

- 7. (a) With an suitable example explain the concept of PaaS and SaaS.
 - (b) Explain any four services provided by Microsoft Azure

$$4 + (4 \times 2) = 12$$

Group - E

- 8. (a) Explain briefly the five components of Chargeback model. Describe the key activities of IT service continuity management.
 - (b) Describe the indirect cost factors of cloud.

$$(5+3)+4=12$$

- 9. (a) What are the key elements that make a compact SLA?
 - (b) Explain cloud computing risk according to Gartner.

$$8 + 4 = 12$$