## 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 any 5 (five) from Group B to E, taking at least one from each group.

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

Group – A (Multiple Choice Type Questions)							
1.	Choos	se the correct alternative for the following:	10 × 1 = 10				
	(i)	(i) Which of the following cloud concept is related to pooling and sharing resources?					
		(a) Polymorphism (b) Abstraction					
		(c) Virtualization (d) None of the mention	ied.				
	(ii)						
		(a) All applications benefit from deployment in the cloud.					
		(b) With cloud computing, you can start very small and be fast.	come big very				
		(c) Cloud computing is revolutionary, even if the technology evolutionary.	it is built on is				
		(d) None of the mentioned					
	(iii)	Point out the correct statement :					
		(a) The use of the word "cloud" makes reference to the concepts.	two essential				
		<ul><li>(b) Cloud computing abstracts systems by pooling and sharin</li><li>(c) Cloud computing is nothing more than the Internet.</li></ul>	g resources				
		(d) All of the mentioned.					
	(iv)	Which of the following architectural standards is working computing industry?  (a) Web-application frameworks  (b) Standardized Web services	ng with cloud				
		(c) Service-oriented architecture (d) All of the mentioned.					
	(v)	The technology used to distribute service requests to resour	ces is referred				

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(b) load scheduling

(d) all of the mentioned.

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(vi)	Azure Storage plays the same role in Azure that plays in Amazon Web Services.									
	(a) S3 (b) E	C2 (c	) EC3	(d) All of t	he mentior	ıed.				
(vii)	Which of the following describes a message-passing taxonomy for a component-based architecture that provides services to clients upon demand?  (a) SOA (b) EBS (c) GEC (d) all of the mentioned.									
	(a) SOA (b) El	, (C	) dEC	(u) an or t	ne memon	ieu.				
(viii)	Cloud computing is a system and it is necessarily unidirectional in nature.									
	(a) stateless (c) reliable			<ul><li>(b) stateful</li><li>(d) all of the mentioned.</li></ul>						
(ix)	Which of the follow (a)Security (b)Security		nportant area )Scalability							
(x)	Which of the following is an IaaS service provider?									
	(a) EC1 (b) E	_	) EC10 <sup>1</sup>	(d) Hybric	l					
Group – B										
2. (a) (b)	What is grid computing? Explain different types of grid computing Explain briefly the benefits of cluster computing.									
(-)	r		<b>P</b>	0	(2 + 5) -	<b>+</b> 5 <b>=</b> 12				
3. (a)	Why is cloud computing required? Discuss three main advantages and two major disadvantages of cloud computing with suitable examples.									
(b)	Explain the design issues of clustering.									
(3+6)+3=12										
Group – C										
4.(a)	) What is virtualization? Explain Network Function Virtualization architecture briefly.									
(b)	Compare between Networking mode		System m	odel and	Software	Defined				

(2+8)+2=12

5.(a) What is IaaS? Explain the different features of Amazon EC2.

(b) Explain Open Flow Protocol with an example.

(2+5)+5=12

# Group - D

Explain Google App Engine architecture. What are the advantages and 6.(a) disadvantages of PaaS?

Explain different compute services of Microsoft Azure (b)

(4+3)+5=12

(a) load performing

(c) load balancing

to as:

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- 7.(a) What are Web Services? What are the different components used for Web Services? What are the benefits of using Web Services?
- (b) Explain Microsoft Azure architecture.

$$(1+2+3)+6=12$$

### Group - E

- 8.(a) Explain briefly any three components of chargeback model.
- (b) How should cast be allocated in a cloud?
- (c) Explain distributed DOS attack.

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

- 9.(a) What are the key elements that make a compact SLA?
- (b) What are the different types of SLA provided by the cloud provider?
- (c) Describe the key activities of IT service continuity management.

7 + 2 + 3 = 12