## (2 <sup>1</sup>/<sub>2</sub> Hours)

[Total Marks: 60]

N.B:	(1)	All questions are compulsory.

- (2) Figures to the **right** indicate full marks.
- (3) **Assume additional data if necessary** but state the same clearly.

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(4)	Symbols have their us	sual meanings	and tables	have their	usual standar	rd
	design unless stated oth	herwise.				

(5) Use of **calculators** and statistical tables are **allowed**.

Attempt <b><u>any two</u></b> of the following	(12)
Explain the RPC reference model with a neat diagram.	6
Explain the various advantages of virtualization.	6
	6
Explain the various hardware architectures for parallel processing.	6
Attempt any two of the following	(12)
Define Cloud Computing. Explain its characteristics and benefits.	6
	6
	6
Explain the concept of Hybrid Clouds and cloud bursting.	6
Attempt any two of the following	(12)
Explain following terms with reference to Amazon EC2 Infrastructure as	6
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	6
	6
Explain how Multi-Tenancy is implemented using cloud data stores	6
Attempt <b>any two</b> of the following	(12)
Explain the advantages and limits of Dev 2.0.	6
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	6
	<ul> <li>Explain the RPC reference model with a neat diagram.</li> <li>Explain the various advantages of virtualization.</li> <li>Explain the various components comprising distributed system.</li> <li>Explain the various hardware architectures for parallel processing.</li> <li>Attempt any two of the following</li> <li>Define Cloud Computing. Explain its characteristics and benefits.</li> <li>Explain the concept of Enterprise components.</li> <li>Explain the various cloud computing services.</li> <li>Explain the concept of Hybrid Clouds and cloud bursting.</li> <li>Attempt any two of the following</li> <li>Explain following terms with reference to Amazon EC2 Infrastructure as service.</li> <li>(i) Elastic Block Storage (ii) SimpleDB (iii) Amazon Simple Queue Service Differentiate between SOAP and Rest Web services.</li> <li>Explain the use of Ajax in cloud computing.</li> <li>Explain how Multi-Tenancy is implemented using cloud data stores</li> </ul>

## **QP Code: 28612**

Q.5	Attempt any two of the following	(12)
a)	Explain client/server and peer-to-peer architectural styles of distributed systems.	6
b) c)	Write a short note on tier architectures with TP Monitors. Compare the life cycles of Traditional Multithreading and Aneka based	6 6
d)	Multithreading with neat diagrams. Explain the concept of Application security in enterprise application	6

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