

Total No. of Questions : 6]

SEAT No. :

P545

[Total No. of Pages : 2

**TE/Insem/APR - 147**  
**T.E. (Information Technology)**  
**CLOUD COMPUTING**  
**(2015 Pattern) (Semester - II)**

*Time : 1 Hour]*

*[Max. Marks : 30*

*Instructions to the candidates :*

- 1) *Answer Q.1 or Q.2, Q.3 or Q.4, Q.5 or Q.6.*
- 2) *Neat diagrams must be drawn wherever necessary.*
- 3) *Figures to the right indicate full marks.*
- 4) *Assume suitable data, if necessary.*

**Q1)** a) Enlist and explain in brief any six characteristics of Cloud Computing. [6]

b) What are the Fundamental Components to construct Inter-connecting Architecture? Describe. [4]

OR

**Q2)** a) Explain cloud delivery models with example. [6]

b) Enlist and explain technologies used in Storage Systems. [4]

**Q3)** a) Explain levels of Virtualization. [4]

b) Draw the diagram of Xen Architecture. [3]

c) Define following standards of Application Development. [3]

i) AJAX

ii) XML

iii) JSON

**P.T.O.**

OR

- Q4)** a) Explain Binary Translation with Full Virtualization. [4]  
b) Draw the diagram of 'Two level memory mapping' with reference to memory virtualization. [3]  
c) What are Solution Stacks? Explain in brief. [3]
- Q5)** a) Describe any six important Cloud Platform Capabilities. [6]  
b) Define any four IaaS instances of Amazon EC2 cloud. [4]

OR

- Q6)** a) Explain programming in Google Application Engine with the help of diagram. [6]  
b) Define the following terms: [4]  
i) Eucalyptus  
ii) Nimbus  
iii) Open Nebula  
iv) Open Stack

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