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Roll No.

TCS-605/TIT-605

**B. TECH. (CS/IT) (SIXTH SEMESTER)
END SEMESTER EXAMINATION, 2018**

CLOUD COMPUTING

Time : Three Hours

Maximum Marks : 100

Note : (i) This question paper contains five questions with alternative choice.

(ii) All questions are compulsory.

(iii) Instructions on how to attempt a question are mentioned against it.

(iv) Each part carries ten marks. Total marks assigned to each question are twenty.

1. Attempt any *two* questions of choice from (a), (b) and (c). (2×10=20 Marks)

(a) How does NIST define Cloud Computing ? Why does NIST claim that the following are the vital characteristics of Cloud Computing ?

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On demand Service, Broad Network access, Resource Pooling, Rapid Elasticity, Measured Service.

- (b) Discuss in detail the pros and cons of Cloud Computing. Who should be ideally using and not using Cloud Computing ?
 - (c) Write a note on Cloud Deployment models with neat diagrams.
2. Attempt any *two* questions of choice from (a), (b) and (c). (2×10=20 Marks)
- (a) What are the private cloud deployment models ? What are the building blocks of private cloud ? State the challenges to the private cloud.
 - (b) With a neat diagram explain the cloud architecture.
 - (c) What is a virtual private cloud ? How is it different from private cloud ? State the benefits of using virtual private cloud.
3. Attempt any *two* questions of choice from (a), (b) and (c). (2×10=20 Marks)
- (a) Elaborate on the Cloud Service Models.

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- (b) Why should we use public cloud and when to opt for a public cloud ?
 - (c) Write the steps for implementation of any public cloud.
4. Attempt any *two* questions of choice from (a), (b) and (c). (2×10=20 Marks)
- (a) Explain the security concerns in traditional IT. Who are the different vendors offering cloud security for public and private clouds ?
 - (b) Explain the concept of multi-cloud management in detail. Also states its benefits.
 - (c) State the challenges in managing heterogeneous clouds and advantages of multi-cloud management systems.
5. Attempt any *two* questions of choice from (a), (b) and (c). (2×10=20 Marks)
- (a) What are the Future technology trends in Cloud Computing with a focus on Cloud service models, deployment models and cloud applications ?

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(b) Explain the Selection criteria for cloud deployment.

(c) Explain the role of cloud computing in the following fields of :

(i) Business

(ii) Industry

(iii) Cloud Enabler