



# HALDIA INSTITUTE OF TECHNOLOGY

(AN AUTONOMOUS INSTITUTION UNDER MAULANA ABUL KALAM AZAD UNIVERSITY OF TECHNOLOGY, WEST BENGAL)

**Paper Code: PEC-CS 701B**

**Paper Name: Cloud Computing**

*Time Allotted:* 1 Hour 30 Minutes

*Full Marks:* 70

*The figures in the margin indicate full marks*

*Candidates are required to give their answers in their own words as far as practicable*

## **Group – A**

### **(Multiple Choice Type Questions)**

**1. Choose the correct alternatives from the followings:**

**30 x 1 = 30**

(i) Which of the following can cloud computing replace? [CO 1]

- a) corporate data centers   b) costly software upgrade   c) expensive computer hardware  
d) all of these

(ii) Amazon EC2 is which type of cloud computing model? [CO 1]

- a) compliance as a service   b) platform as a service   c) infrastructure as a service   d)  
software as a service

(iii) Which of the following widely used services is built on cloud-computing technology? [CO 1]

- a) Gmail   b) Twitter   c) YouTube   d) all of these

(iv) Which of the following programming language did Google include for development around App Engine? [CO 1]

- a) C++   b) SQL   c) Java   d) Visual Basic

(v) What is a Virtual Private Network (VPN)? [CO 1]

- a) A secured connection for remote access to a local area network   b) A secured private cloud for a single user  
c) A virtual network device for private purposes   d) An operating system for private network systems

(vi) \_\_\_\_\_ describes a cloud service that can only be accessed by a limited amount of people. [CO 2]

a) Data center b) Private cloud c) Virtualization d) Public cloud

(vii)\_\_\_\_\_ computing refers to applications and services that run on a distributed network using virtualized resources. [CO 1]

a) Distributed b) Cloud c) Soft d) Parallel

(viii)SaaS supports multiple users and provides a shared data model through \_\_\_\_\_ model. [CO 1]

a) single-tenancy b) multi-tenancy c) multiple-instanced) all of the mentioned

(ix)Azure Storage plays the same role in Azure that \_\_\_\_\_ plays in Amazon Web Services. [CO 2]

a) S3 b) EC2 c) EC3 d) All of the mentioned

(x)Which was the first free hosted Webmail service to the user? [CO 1]

a) Hotmail b) Yahoo mail c) Google mail d) All of the mentioned

(xi)Which of the following provide system resource access to virtual machines? [CO 1]

a) VMM b) VMC c) VNM d) All of the mentioned

(xii)The technology used to distribute service requests to resources is referred to as \_\_\_\_\_ . [CO 1]

a) load performing b) load scheduling c) load balancing d) all of the mentioned

(xiii)Which is not a major cloud computing platform? [CO 1]

a) Google GAE b) IBM Deep blue c) Microsoft Azure d) Amazon EC2

(xiv)What is the number one concern about cloud computing? [CO 1]

a) Too expensive b) Security concerns c) Too many platforms d) Accessibility

(xv)Which of these should a company consider before implementing cloud computing technology? [CO 1]

a) Employee satisfaction b) Potential cost reduction c) Information sensitivity d) All of the above

(xvi)How many types of dimensions exists in Cloud Cube Model? [CO 1]

a) 1 b) 2 c) 3 d) 4

(xvii) Which one of the following options is true with respect to cloud computing?[CO 1]

a) Hardware should be composable b) Software should be composable c) Both Hardware and Software should be composable d) Both Hardware and Software are not required to be composable.

(xviii) Which model of cloud computing services provides the servers, storage devices, and networks for a subscriber? [CO 1]

- a) IaaS      b) PaaS      c) CaaS      d) SaaS.

(xix) Which cloud characteristic refers to the ability of a subscriber to increase or decrease its computing requirements as needed without having to contact a human representative of the cloud provider? [CO 1]

- a) Rapid elasticity      b) Broad network accessed      c) On-demand self service      d) Resource pooling.

(xx) What IS the definition of provisioning as an automated process related to cloud computing? [CO 1]

- a) It moves data from one cloud to another      b) It provides server consolidation capability  
c) It adds security constraints to a cloud environment      d) It handles computing resource management processes

(xxi) What are the components of a cloud computing environment? [CO 1]

- a) Application, platform, infrastructure      b) Client, application, session, network, data      c) Application, presentation, transport, network, data      d) Client, application, platform, infrastructure, server.

(xxii) Which of the following feature of cloud computing that allows the service to change in size or volume in order to meet a user's needs. [CO 1]

- a) Scalability      b) Virtualization      c) Security      d) Cost Savings

(xxiii) The private cloud is a \_\_\_\_\_. [CO 1]

- a) A cloud service inaccessible to anyone but the cultural elite      b) Standard cloud service offered via the Internet      c) Cloud architecture maintained within an enterprise data center      d) All of the above

(xxiv) Which of the following isn't an advantage of cloud computing? [CO 1]

- a) It's easier to maintain a cloud computing network.      b) You don't have to worry about your computer running out of storage.      c) You can access more powerful applications than your computer could run typically.      d) Paying only for what you use

(xxv) Which of the following is the first cloud computing outcome? [CO 1]

- a) salesforce.com      b) purchaseforce.com      c) stockforce.com      d) deliveryforce.com

- (xxvi) Which of the following is the deployment model? [CO 1]  
 a) public b) private c) hybrid d) all of the mentioned
- (xxvii) Which of the following is best known service model? [CO 1]  
 a) SaaS b) IaaS c) PaaS d) All of the mentioned
- (xxviii) Which of the following type of virtualization is also characteristic of cloud computing? [CO 1]  
 a) Storage b) Application c) CPU d) All of the mentioned
- (xxix) Which of the following model allows vendor to provide security as part of the Service Level Agreement? [CO 1]  
 a) SaaS b) PaaS c) IaaS d) All of the mentioned
- (xxx) Which of the following is not a Webmail Service? [CO 1]  
 a) AOL Mail b) Windows Live Mail c) Yahoo Mail d) None of the mentioned

**Group – B**  
**(Multiple Choice Type Questions)**

**2. Choose the correct alternatives from the followings: 20 x 2 = 40**

- (i) Which of the following is the most refined and restrictive service model? [CO 1]  
 a) IaaS b) CaaS c) PaaS d) All of the mentioned
- (ii) Which of the following is associated with considerable vendor lock-in? [CO 1]  
 a) PaaS b) IaaS c) CaaS d) SaaS
- (iii) \_\_\_\_\_ Live Services can be used in applications that run in the Azure cloud. [CO 2]  
 a) Microsoft b) Windows c) Yahoo d) Ruby
- (iv) For the \_\_\_\_\_ model, the security boundary may be defined for the vendor to include the software framework and middleware layer. [CO 1]  
 a) SaaS b) PaaS c) IaaS d) All of the mentioned
- (v) Which of the following storage is presented to a user as if it is a ready-to-use disk drive? [CO 1]  
 a) Managed b) Unmanaged c) Unavailable d) None of the mentioned
- (vi) Which of the following is the IaaS service provider? [CO 1]  
 a) EC2 b) EC1 c) EC10 d) Hybrid
- (vii) Which of these services is not Platform as a Service? [CO 1]  
 a) Force.com b) Microsoft Azure c) Amazon EC2 d) Joyent

(viii) What feature does not belong in a private cloud? [CO 1]

a) Metered billing b) Self-service portal c) Dial-home support d) Rapid elasticity

(ix) How many security accounts per client is provided by Microsoft? [CO 1]

a) 1 b) 3 c) 5 d) 7

(x) Which of the following cloud storage is consumed by file sharing software? [CO 1]

a) Managed b) Unmanaged c) Unavailable d) All of the mentioned

(xi) Which of the following cloud concept/s is/are related to pooling and sharing of resources? [CO 1]

a) Virtual Memory b) Service c) Virtualization d) None of these

(xii) Which of the following is an example of a PaaS service? [CO 1]

a) Heroku b) Windows Azure c) AWS Elastic Beanstalk d) All of these

(xiii) Name one use case for Google Cloud Machine Learning Platform [CO 2]

a) Sentiment Analysis b) Data Preparation c) Content Personalization d) Query Architecture

(xiv) What is Tensor Flow? [CO 1]

a) An Open Source software library that is useful for building Machine Learning Applications  
b) A managed service for building Machine Learning models  
c) A hardware device designed to accelerate Machine Learning Workloads  
d) A managed service for building data pipelines

(xv) Choose an application that would be suitable for running in the Preemptive VM [CO 1]

a) A batch job that can be checkpointed and restarted  
b) An interactive website  
c) An online relational database  
d) A batch job that cannot be checkpointed and restarted

(xvi) Containers are loosely coupled to their environments. What does that mean? [CO 4]

a) Deploying a containerized application consumes less resource and is less error prone than deploying applications in virtual machine  
b) Containers are easy to move around  
c) Contains package your application in equally sized components  
d) Containers don't require any particular runtime binary

(xvii) How are Cloud Datastore and Cloud Bigtable alike? [CO 1]

a) They are both NoSQL databases  
b) They offer both SQL like queries  
c) They both have a free daily quota  
d) Both are highly scalable

(xviii) Which of these compute services lets customers to deploy their applications in containers that run in Clusters on Google's infrastructure? [CO 1]

a) Kubernetes Engine b) Cloud functions c) Compute Engine d) App Engine

(xix) \_\_\_\_\_ is a CPU emulator and virtual machine monitor [CO 1]

a) QEMU b) Imaging c) Parallels d) None of the mentioned

(xx) Which of the following virtualization is most commonly achieved through a mapping mechanism where a logical storage address is translated into a physical storage address? [CO 1]

a) Storage b) Network c) Software d) None of the mentioned

**ANGANA CHAKRABORTY**

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Signature of the Paper Setter/Moderator

**Answer Key:**

**Group – A**

|                 |          |           |            |           |           |
|-----------------|----------|-----------|------------|-----------|-----------|
| <b>1.</b> (i) d | (ii) c   | (iii) d   | (iv) d     | (v) a     | (vi) b    |
| (vii) b         | (viii) b | (ix) a    | (x) a      | (xi) a    | (xii) c   |
| (xiii) b        | (xiv) b  | (xv) d    | (xvi) d    | (xvii) c  | (xviii) a |
| (xix) c         | (xx) d   | (xxi) d   | (xxii) a   | (xxiii) c | (xxiv) a  |
| (xxv) a         | (xxvi) d | (xxvii) d | (xxviii) d | (xxix) a  | (xxx) d   |

**Group – B**

|                 |          |         |         |          |           |
|-----------------|----------|---------|---------|----------|-----------|
| <b>2.</b> (i) c | (ii) a   | (iii) b | (iv) b  | (v) b    | (vi) a    |
| (vii) b         | (viii) b | (ix) c  | (x) b   | (xi) a   | (xii) a   |
| (xiii) a        | (xiv) a  | (xv) a  | (xvi) a | (xvii) a | (xviii) a |
| (xix) a         | (xx) a   |         |         |          |           |