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NOIDA INSTITUTE OF ENGINEERING AND TECHNOLOGY, GREATER NOIDA

(An Autonomous Institute Affiliated to AKTU, Lucknow)

MCA

SEM: III - THEORY EXAMINATION (2021 - 2022) (ONLINE)

Subject: Cloud Computing

Time: 02:00 Hours

Max. Marks: 100

General Instructions:

1. *All questions are compulsory. It comprises of two Sections A and B.*
 - *Section A - Question No- 1 has 35 objective type questions carrying 2 marks each.*
 - *Section B - Question No- 2 has 12 subjective type questions carrying 3 marks each. You have to attempt any 10 out of 12 question.*
 - *No sheet should be left blank. Any written material after a Blank sheet will not be evaluated/checked.*

SECTION A

35 x 2 = 70

1. Attempt ALL parts:-

- 1.1.a What type of computing technology refers to services and applications that typically run on a distributed network through virtualized resources? 1
- (a) Distributed Computing
 - (b) Cloud Computing
 - (c) Soft Computing
 - (d) Parallel Computing
- 1.1.b Cloud computing is a kind of abstraction which is based on the notion of combining physical resources and represents them as _____resources to users. 1
- (a) Real
 - (b) Cloud
 - (c) Virtual
 - (d) none of the mentioned
- 1.1.c Which one of the following is Cloud Platform by Amazon? 1
- (a) Azure
 - (b) AWS
 - (c) Cloudera
 - (d) All of the mentioned
- 1.1.d The term _____ refers to a Network or Internet. 1
- (a) Cloud Computing
 - (b) Cloud
 - (c) Computing
 - (d) CRM
- 1.1.e Cloud Computing refers to? 1
- (a) accessing the hardware
 - (b) configuring the hardware
 - (c) manipulating the hardware
 - (d) All of the above
- 1.1.f What is Business Architecture Development? 1
- (a) we recognize the risks that might be caused by cloud computing application from a

business perspective.

(b) we identify the applications that support the business processes and the technologies required to support enterprise applications and data systems.

(c) we formulate all kinds of plans that are required to transform current business to cloud computing modes.

(d) None of the above

- 1.1.g Which of the following company is not a vendor of cloud computing? 1
(a) Amazon
(b) Google
(c) Microsoft
(d) Blackboard
- 1.2.a is the essential concept related to Cloud? 1
(a) Reliability
(b) Abstraction
(c) Productivity
(d) None of the above
- 1.2.b What is the most important area of concern in cloud computing? (CO2) 1
(a) Storage
(b) Scalability
(c) Security
(d) None of the above
- 1.2.c Which of the following architectural layer is used as front end in cloud computing ? 1
(a) cloud
(b) client
(c) soft
(d) All of the above
- 1.2.d Which of the following is not a major type of cloud computing usage? 1
(a) Platform as a Service
(b) Software as a Service
(c) Hardware as a Service
(d) Infrastructure as a Service
- 1.2.e Which of the following are the enhanced services provided by a private cloud? 1
(a) Scalability
(b) Customization
(c) Cost effective
(d) Both a and b
- 1.2.f Which of the following is an example of the cloud? 1
(a) Amazon Web Services (AWS)
(b) Dropbox
(c) Cisco WebEx
(d) All of the above
- 1.2.g Which of the following systems allow short text messages to be exchanged? 1
(a) SMS
(b) IMS
(c) JVS
(d) All of the mentioned
- 1.3.a Which of these is an example of a cloud marketplace? 1

- (a) AWS marketplace
 - (b) Oracle marketplace
 - (c) Microsoft Windows Azure marketplace
 - (d) All of these
- 1.3.b What is the need for load balancing in cloud computing? 1
- (a) Increased scalability
 - (b) Ability to handle sudden traffic spikes
 - (c) A and B both
 - (d) None of these
- 1.3.c What is most commonly used for managing the resources for every virtual system? 1
- (a) Load balancer
 - (b) Hypervisor
 - (c) Router
 - (d) Cloud
- 1.3.d Which is not a benefit of virtualization? 1
- (a) Flexible and efficient allocation of resources
 - (b) Lowers the cost of IT infrastructure
 - (c) Remote access and rapid scalability
 - (d) Run on single operating system
- 1.3.e It is an array of servers that are managed by a virtual storage system. 1
- (a) Application virtualization
 - (b) Network virtualization
 - (c) Desktop virtualization
 - (d) Storage virtualization
- 1.3.f Which is the correct type of full virtualization? 1
- (a) Software assisted
 - (b) IoT assisted
 - (c) Hardware-assisted
 - (d) Software assisted and Hardware-assisted both
- 1.3.g Cloud computing is platform independent 1
- (a) TRUE
 - (b) FALSE
- 1.4.a Does Cloud Services have a one to many relationship with their customers? 1
- (a) TRUE
 - (b) FALSE
- 1.4.b IBM deep blue is a major cloud computing. 1
- (a) FALSE
 - (b) TRUE
- 1.4.c Is internet connection required in cloud computing? 1
- (a) TRUE
 - (b) FALSE
- 1.4.d CloudSim is a library for simulation of cloud scenarios.(CO4) 1
- (a) FALSE
 - (b) TRUE
- 1.4.e Virtualization provides a logical name for a physical resource, and on-demand provides an indicator of that physical resource. 1

- (a) TRUE
(b) FALSE
- 1.4.f Management of resources on-premises allows vendors to use well-established network management technologies 1
(a) TRUE
(b) FALSE
- 1.4.g SaaS reduces the hardware cost State 1
(a) FALSE
(b) TRUE
- 1.5.a The deployment stage in cloud computing have _____ 1
(a) three stages
(b) NIL
- 1.5.b Quality of service is a _____ requirement in cloud computing. 1
(a) Non functional
(b) NIL
- 1.5.c _____ is a phase where one can identify the cloud computing risk of an application in a business. 1
(a) Business architecture
(b) NIL
- 1.5.d The essential requirement of the cloud is _____. 1
(a) Reliability
(b) NIL
- 1.5.e ____ is the familiar Microsoft Office now available on the cloud as SaaS 1
(a) Office 365
(b) NIL
- 1.5.f PaaS provides computational resources through the platform such as _____. 1
(a) Operating System
(b) NIL
- 1.5.g Generally investments in cloud computing will be dominated by a _____. 1
(a) cost perspective
(b) NIL

SECTION B

10 X 3 = 30

2. Answer any TEN of the following:-

- 2.1.a What are the characteristics of a cloud? 2
- 2.1.b What is remote access? 2
- 2.2.a What is Software as a Service (SaaS)? 2
- 2.2.b What is importance of Database as a Service? 2
- 2.2.c What are features of PaaS? 2
- 2.3.a What are the 2 types of cloud computing? 2
- 2.3.b What is sales force service cloud? 2
- 2.3.c What are the advantages of Eucalyptus cloud? 2
- 2.4.a What type of cloud is email? 2
- 2.4.b What is CRM in cloud computing? 2
- 2.5.a What is virtualization in simple words? 2
- 2.5.b What are 3 major benefits of using virtualization? 2