BRAINWARE UNIVERSITY

Term End Examination 2023
Programme – MCA-2020/MCA-2021
Course Name – Cloud Computing
Course Code - MCA304B
(Semester III)

Full Marks : 60   **Time : 2:30 Hours**

[The figure in the margin indicates full marks. Candidates are required to give their answers in their own words as far as practicable.]

Group-A
(Multiple Choice Type Question)   1 x 15=15

1. *Choose the correct alternative from the following :*

(i) Justify the following is not correct statement

   a) Internet consumes roughly 1 percent of the worlds total power
   b) The cost advantages of cloud computing have enabled new software vendors to create productivity applications
   c) A client can provision computer resources without the need for interaction with cloud service provider personnel
   d) None of the mentioned

(ii) justify one is wrong statement

   a) Cloud Computing has two distinct sets of models
   b) Amazon has built a worldwide network of datacenters to service its search engine
   c) Azure enables .NET Framework applications to run over the Internet
   d) None of the mentioned

(iii) Select the Right statement

   a) JumpIt is an open-source virtual appliance installation and management service
   b) Converting a virtual appliance from one platform to another is easy proposition
   c) Nearly all major virtualization platform vendors support OVF, notably VMware, Microsoft, Oracle, and Citrix
   d) All of the mentioned

(iv) Which offering provides the tools and development environment to deploy applications on another cloud provider application

   a) Platform as a Service
   b) Infrastructure as a Service
   c) Containers as a Service
   d) All of the mentioned

(v) Justify the wrong statement

   a) Network capacity is one of the easiest factors to determine
   b) A system uses resources to satisfy cloud computing demands that include processor, memory, storage, and network capacity

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c) Scaling a system can be done by scaling up vertically to more powerful systems

d) All of the mentioned

(vi) Justfy, Amazon Web Services offers a classic Service Oriented Architecture (SOA) approach to which of the following

a) IaaS

b) SaaS

c) PaaS

d) All of the mentioned

(vii) explain which of the following is wrong statement

a) Internet consumes roughly 1 percent of the worlds total power

b) The cost advantages of cloud computing have enabled new software vendors to create productivity applications

c) A client can provision computer resources without the need for interaction with cloud service provider personnel

d) None of the mentioned

(viii) Which of the following benefit is related to creates resources that are pooled together in a system that supports multi-tenant usage

a) ondemand self service

b) board network acess

c) Resourceing pooling

d) all of the mentioned

(ix) Select the following is Cloud Platform by Amazon

a) azure

b) aws

c) cloudera

d) all of the mentioned

(x) Explain the following is the most important area of concern in cloud computing

a) security

b) storage

c) scalability

d) all of the mentioned

(xi) Which of the following is best known service model

a) saas

b) iaas

c) paas

d) all of the mentioned

(xii) _____ computing refers to applications and services that run on a distributed network using virtualized resources.

a) a) Distributed

b) cloud

c) soft

d) parallel

(xiii) Choose the following architectural standards is working with cloud computing industry

a) Service-oriented architecture

b) Standardized Web services

c) Web-application frameworks

d) all of the mentioned

(xiv) How many types of virtual private server instances are partitioned in an IaaS stack

a) 1

b) 2

c) 3

d) 4

(xv) Which one is wrong statement

a) Cloud Computing has two distinct sets of models

b) Amazon has built a worldwide network of datacenters to service its search engine

c) Azure enables .NET Framework applications to run over the Internet

d) None of the mentioned

Group-B
(Short Answer Type Questions)

3 x 5=15

2. Write short notes on origins of cloud computing (3)
3. Describe in detail about provider data and its security (3)
4. Explain virtualization. (3)
5. Explain the virtualization of CPU, Memory and I/O devices (3)
6. Write the note of layers and types of clouds (3)

OR

Write note on desired features of a cloud (3)

Group-C
(Long Answer Type Questions)

5 x 6=30

7. Define virtualization. What is the need of virtualization in cloud computing (5)
8. Evaluate GFS cluster architecture with suitable block diagram (5)
9. Estimate the virtualization for data center automation (5)
10. Discuss the operational and economic benefits of SaaS (5)
11. Determine in detail about provider data and its security (5)
12. Recommend HDFS architecture with a proper diagram (5)
OR
Defend the cloud infrastructure security at application level (5)

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