

Roll No.

BCA-E-508

B. C. A. (Fifth Semester) EXAMINATION, 2022-23

CLOUD COMPUTING

Time : 2 $\frac{1}{2}$ Hours

Maximum Marks : 60

Note : Attempt all questions.

Section—A (Multiple Choice Questions)

1. Choose the correct option. 1 each
 - (a) Which of the following is not a type of cloud server ? (CO1, BL-1)
 - (a) Public Cloud Servers
 - (b) Private Cloud Servers
 - (c) Dedicated Cloud Servers
 - (d) Merged Cloud Servers
 - (b) Which of the following is the application of cloud computing ? (CO4, BL-1)
 - (a) Adobe

- (b) Paypal
(c) Google G Suite
(d) All of the above
- (c) Applications and services that run on a distributed network using virtualized resources is known as _____.
- (CO1, BL-1)
- (a) Parallel computing
(b) Soft computing
(c) Distributed computing
(d) Cloud computing
- (d) Which of the following is the correct statement about cloud computing ?
- (CO1, BL-1)
- (a) Cloud computing abstracts systems by pooling and sharing resources
(b) Cloud computing is nothing more than the Internet
(c) The use of the word “cloud” makes reference to the two essential concepts
(d) All of the mentioned
- (e) Point out the wrong statement :
- (CO3, BL-1)
- (a) Cloud services span the gamut of computer applications

- (b) The impact of cloud computing on network communication is to discourage the use of open-source network protocols in place of proprietary protocol
- (c) Atom is a syndication format that allows for HTTP protocols to create and update information
- (d) None of the mentioned
- (f) Point out the wrong statement : (CO1, BL-2)
- (a) With a pay-as-you-go, endlessly expandable, and universally available system, cloud computing realizes the long-held goal of utility computing.
- (b) The widespread use of the Internet enables the huge size of cloud computing systems.
- (c) Soft computing represents a significant change in the way computers are delivered.
- (d) All of the mentioned
- (g) Which of the following is an edge-storage or content-delivery system that caches data in different physical locations ? (CO2, BL-1)
- (a) Amazon Relational Database Service
- (b) Amazon SimpleDB
- (c) Amazon Cloudfront
- (d) Amazon Associates Web ServicesCourse
Outcome here BL

- (h) Which of the following is a classic example of an IaaS service model ? (CO1, BL-1)
- (a) AWS
 - (b) Azure
 - (c) Cloudera
 - (d) All of the mentioned
- (i) Point out the correct statement : (CO5, BL-2)
- (a) A branded cloud computing platform cannot extend customer relationships by offering additional service options
 - (b) A cloud computing platform extends the company's products and defends their franchise
 - (c) The economies of scale cannot make a profitable business
 - (d) All of the mentioned
- (j) What does IPsec in the Azure platform refer to ? (CO3, BL-1)
- (a) Internet Protocol Security protocol suite
 - (b) Internet Standard
 - (c) Commodity servers
 - (d) All of the mentioned

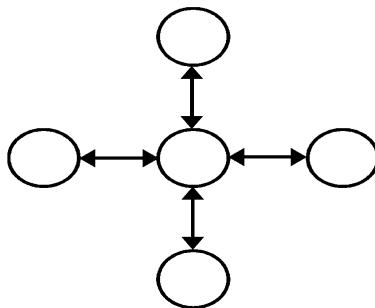
(k) Which of the following elements allows you to create and manage virtual machines that serve either in a Web role and a Worker role ?

(CO5, BL-1)

- (a) Compute
- (b) Application
- (c) Storage
- (d) None of the mentioned

(l) Which of the following topology is shown in the following figure ?

(CO3, BL-1)



- (a) Circular
- (b) Star
- (c) Hierarchical
- (d) All of the mentioned

2. Attempt any *four* of the following (Short answer type questions) : 3 each

(a) Explain the services provided by Microsoft Azure and Google Cloud ?

(CO3, BL-1)

- (b) Explain the difference between multi-tasking, multi-threading and virtualization. (CO1, BL-1)
- (c) List the benefits and drawbacks of using “Infrastructure as a Service” (CO2, BL-2)
- (d) Compare online agreements and service contracts with respect cloud contracting models.
(CO5, BL-2)
- (e) Explain briefly Public Cloud and Infrastructure Services. (CO2, BL-1)

Section—B

- 3. Attempt any *two* of the following : 6 each
 - (a) Explain Clusters of cooperative computing ? Why cluster computing is required ? (CO2, BL-1)
 - (b) Write a detailed note on SaaS Integration products. (CO2, BL-2)
 - (c) Write short notes on the following :
(CO4, BL-1, 2)
 - (i) User-centric clouds
 - (ii) Multimedia streaming
- 4. Attempt any *two* of the following. 6 each
 - (a) Explain Cloud Balancing Architecture. Explain the service quality metrics. (CO2, BL-1)
 - (b) Describe in detail about VM provisioning and migration technique with relevant case study.
(CO1, BL-3)
 - (c) List the pros and cons of content level security.
(CO2, BL-2)

5. Attempt any *two* of the following. 6 each

(a) Write the name of different layers that define cloud architecture. Explain the working of them.

(CO2, BL-1)

(b) What is AWS ? Explain the best practices that help in building an application in the cloud.

(CO3, BL-3)

(c) Discuss about data security risks in cloud. Explain how digital identity can overcome these risks.

(CO5, BL-3)