

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

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- (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

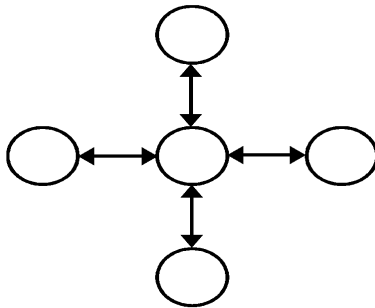
- (h) Which of the following is a classic example of an IaaS service model ? (CO1, BL-1)
- (a) AWS
 - (b) Azure
 - (c) Cloudera
 - (d) All of the mentioned
- (i) Point out the correct statement : (CO5, BL-2)
- (a) A branded cloud computing platform cannot extend customer relationships by offering additional 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)