S-789

Total Pages : 4   Roll No. --------------

MCS-E12

Cloud Computing

Master of Computer Application (MCA)

4th Semester, Examination 2022(Dec.)

Time: 2 Hours   Max. Marks: 70

Note : This paper is of Seventy (70) marks divided into two (02) Sections A and B. Attempt the questions contained in these sections according to the detailed instructions given therein.

Section – A

(Long Answer – type questions)

Note: Section 'A' contains Five (05) long-answer-type questions of Nineteen (19) marks each. Learners are required to answer any two (02) questions only.

$$[2 \times 19 = 38]$$

P.T.O.

Q.1. Answer the following:

    (a)   Explain in detail the idea of "Cloud Computing and Identity" in Cloud Security.   (5)

    (b)   Explain how Cloud Computing is different from Outsourcing and Provisions of Application Services.   (5)

    (c)   Elaborate the term "software as a service" related to cloud computing.   (6)

    (d)   What is SLA? What is role in cloud computing.   (3)

Q.2. Answer the following:

    (a)   Explain the implementation of hybrid cloud.   (10)

    (b)   Discuss the seven steps model of migration into cloud.   (6)

    (c)   Compare distributed computing with parallel computing and network computing.   (3)

Q.3. Answer the following:

    (a)   Explain about Resource provisioning and Platform development?   (8)

    (b)   What is SQA? Discuss with architecture how two software communicate using SQA.   (8)

(c)   What are the basic modules of EMC's Captiva Cloud Toolkit?   (3)

Q.4.   Answer the following:
   (a)   Explain cloud computing reference model with neat diagram.   (7)
   (b)   Explain any four different computing platforms and technologies.   (12)

Q.5.   Answer the following:
   (a)   What is virtualization? What are characteristics of virtualized environments?   (8)
   (b)   Explain about enhanced cloud computing environment using a cluster as a service.
   (5)
   (c)   Discuss in detail about Nano Computing and optical computing.

Section – B

(Short-answer-type questions)

Note: Section 'B' contains Eight (08) short-answer-type questions of Eight (08) marks each. Learners are required to answer any Four (04) questions only.

[4 x 8 = 32]

Q.1.   Explain the functions and types of Hypervisors.

Q.2.   Elucidate Network threats and data integrity.

Q.3.   How is resource management an obstacle in cloud computing?

Q.4.   Compare cloud computing vs fog computing.

Q.5.   How edge computing is enabled through fog computing?

Q.6.   What is FaaS model? Is serverless a subset of FaaS? Is serverless computing SaaS or PaaS?

Q.7.   Explain concept of S3 provided by Amazon web services.

Q.8.   Describe an application of cloud technologies for online gaming.

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