

- (b) Architecture
- (c) Protocol and Architecture
- (d) None of the above
- 1-d. are developed, maintained and owned by multiple stakeholders in SOA. (CO2) 1
- (a) Web page
- (b) Web application
- (c) Messages
- (d) Services
- 1-e. Select the statement which is true about Regions. (CO3) 1
- (a) Physical location with single availability zone
- (b) All regions are located in one geographical location
- (c) Physical location of your computers
- (d) Each region is located separate geographical area
- 1-f. IBM CCRA is driven by: (CO3) 1
- (a) Functional requirement
- (b) Non- functional requirement
- (c) Both functional and non- functional requirement
- (d) None of the mentioned
- 1-g. Function of a router: (CO4) 1
- (a) converting the data from one format to another
- (b) Forward the packet to the up links
- (c) error detection in data
- (d) None of the given
- 1-h. This storage service can be used without attaching/mounting any instance: (CO4) 1
- (a) S3
- (b) EFS
- (c) EBS
- (d) None of the given
- 1-i. Select your answer for the statement "Can interconnected colocation augment your data center strategy?".(CO5) 1
- (a) Not really, because data centers are all the same

- (b) Yes, because it relies on fiber-connected facilities located in urban centers
- (c) Depends on its dietary fiber
- (d) None of these

- 1-j. What is the name of the software that lets you run multiple operating systems on one physical server? (CO5) 1
- (a) Processor
 - (b) Hypervisor
 - (c) Virtual Machine
 - (d) Guest Operating System

2. Attempt all parts:-

- 2.a. Discuss VMM with and its types. (CO1) 2
- 2.b. Discuss Utility Computing and its applications. (CO2) 2
- 2.c. Enlist the needs of cloud auditor. (CO3) 2
- 2.d. Brief the advantages of migrating to cloud storage. (CO4) 2
- 2.e. Define Data Center Networking. (CO5) 2

SECTION B

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3. Answer any five of the following:-

- 3-a. Explain network virtualization also discuss its two types.(CO1) 6
- 3-b. Brief role of SLA for Cloud Service Provider and Consumer. (CO1) 6
- 3-c. State principle logics of SOA and its advantages over traditional computing architecture. (CO2) 6
- 3-d. Discuss the similarities and differences between SOAP and RESTful architecture. (CO2) 6
- 3.e. Brief about category of product that are being offered in IBM CCRA. (CO3) 6
- 3.f. Discuss the importance of being Security Groups stateful. (CO4) 6
- 3.g. Write notes on: (i) Solutions for Cooling related cost, (ii) Effect of choosing storage solutions for data centers. (CO5) 6

SECTION C

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4. Answer any one of the following:-

- 4-a. Enlist deployment models and write short notes on each of them. (CO1) 10
- 4-b. Write short notes on: (i) Parallel Computing (ii) Cluster Computing (CO1) 10

5. Answer any one of the following:-

- 5-a. Discuss the advantages of REST services over traditional Web Services. (CO2) 10

5-b. Enlist and brief the HTTP methods in REST API. (CO2) 10

6. Answer any one of the following:-

6-a. Discuss interoperability and its relationship with deployment models. (CO3) 10

6-b. Discuss about scope of control between cloud consumer and cloud service provider in terms of services, cost, security and responsibility. (CO3) 10

7. Answer any one of the following:-

7-a. Provide a brief of DynamoDB and differentiate it with RDS. (CO4) 10

7-b. In a block of addresses, the IP address of one host is 182.44.82.16/26. Find the first address, the last address, total possible hosts and network mask. (CO4) 10

8. Answer any one of the following:-

8-a. Explain about the network access switch placement and its role in the architecture of ToR. (CO5) 10

8-b. Differentiate the 'Scale up' architecture with 'Scale out' architecture of data centers. (CO5) 10

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