|  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
|  |  |  |  |  |  |  |  |  |  |

**IS355TBD**

**USN**

**RV COLLEGE OF ENGINEERING®**

**Autonomous Institution affiliated to VTU**

**V Semester, B.E.**

**Model Question Paper (2022 SCHEME)**

**DEPARTMENT OF INFORMATION SCIENCE AND ENGINEERING**

**COURSE TITLE: CLOUD COMPUTING**

***Time: 03 Hours Maximum Marks: 100***

***Instructions to candidates:***

1. Answer all questions from Part A. Part A questions should be answered in first three pages of the answer book only.
2. Answer FIVE full questions from Part B. In Part B question number 2 is compulsory. Answer any one full question from 3 and 4, 5 and 6, 7 and 8, 9 and 10

|  |  |  |  |
| --- | --- | --- | --- |
|  |  | **PART-A** |  |
| 1 | 1.1 | What is right sizing? | 01 |
|  | 1.2 | Define modular composition. | 02 |
|  | 1.3 | \_\_\_\_\_\_\_\_\_ are very good examples for platforms in cloud computing. | 01 |
|  | 1.4 | Windows Azure and salesforce.com are examples for \_\_\_\_\_\_\_\_\_\_\_\_\_. | 01 |
|  | 1.5 | A major part of cloud computing's value proposition and its appeal is its ability to convert \_\_\_\_\_\_\_\_\_\_\_\_\_to \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ through a usage pricing scheme. | 02 |
|  | 1.6 | List any two SLA parameters. | 02 |
|  | 1.7 | The criteria of installing a software on a single or multiple machines is specified in \_\_\_\_\_\_\_\_\_\_\_\_. | 01 |
|  | 1.8 | Define Composability. | 02 |
|  | 1.9 | \_\_\_\_\_\_\_\_\_\_\_ is a low-level software that allows different operating systems to run in their own memory space and manages I/O for the \_\_\_\_\_\_. | 02 |
|  | 1.10 | The fundamental unit of virtualized client in an IaaS deployment is called a \_\_\_\_\_\_\_\_\_\_\_\_\_\_. | 01 |
|  | 1.11 | The \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ that run the various Internet domains are IDaaS servers. | 01 |
|  | 1.12 | Amazon Web Services is based on SOA standards, including HTTP, \_\_\_\_\_\_, and \_\_\_\_\_\_\_\_ transfer protocols. | 02 |
|  | 1.13 | Some cloud service providers negotiate as part of their \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ to contractually store and process data in locations that are predetermined by their contract. | 01 |
|  | 1.14 | Expand CHAP. | 01 |
| **PART-B** | | | |
| 2 | a | Elaborate on the characteristics of cloud computing. | 08 |
|  | b | Show the computation of costs for different cloud models with formulae. | 08 |
|  |  |  |  |
|  |  |  |  |
| 3 | a | Explain Virtual Appliances with examples. | 06 |
|  | b | Write a detailed note on communication protocols used in cloud computing. | 10 |
|  |  | **OR** |  |
|  |  |  |
| 4 | a | Illustrate the protocol stack of SoA with neat diagram. | 10 |
|  | b | Write short note on SoA communications. | 06 |
|  |  |  |  |
| 5 | a | Cloud can be accessed via Web Applications, Web APIs, Web Browsers, Justify your answer, | 10 |
|  | b | Write short notes on cloud service providers. | 06 |
|  |  | **OR** |  |
| 6 | a | Explain how clients and security are used in cloud technology. | 08 |
|  | b | Explain the infrstructure services used for cloud computing with neat diagram. | 08 |
|  |  |  |  |
| 7 | a | Relate load balancing and virrtualization. | 06 |
|  | b | Describe hypervisors in detail with examples. | 10 |
|  |  | **OR** |  |
| 8 | a | Illustrate the system metrics used for a machine instance. | 08 |
|  | b | Write a short note on VMware VSphere platform. | 08 |

|  |  |  |  |
| --- | --- | --- | --- |
| 9 | a | Describe the cloud management life cycle in detail. | 10 |
|  | b | Write a short note on Encryption in cloud. | 06 |
|  |  | **OR** |  |
| 10 | a | Securing cloud with boundaries and mapping is essential. Justify the point. | 08 |
|  | b | Write a brief note on Intuit QuickBase and Bangee connect clouds. | 08 |

Signature of Scrutinizer: Signature of Chairman

Name: Name: