| 2 | Paper / Subject Code: 87002 / Cloud Computing | 1 0.00 | |
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| | Paper/Subject Code: 87002/Cloud Computing TUBSC- CS - Sem VI 25/4/19 (2½ Hours) | | |
| 4 | (2½ Hours) | [Total Marks: 75] | |
| N. | B. 1) All questions are compulsory. | | |
| | 2) Figures to the right indicate marks. | 184.24 | |
| | 3) Illustrations, in-depth answers and diagrams will be appreciated. | | |
| | 4) Mixing of sub-questions is not allowed. | | |
| Q. 1 | Attempt All (Each of 5Marks) | (15) | vn |
| (a) | Multiple Choice Questions | (13) | 11) |
| ` ' | i. Google App engine Provides | | |
| | a. IaaS b. PaaS c. SaaS d. None of these | | . 57 |
| | ii. Cloud computing is a system and it is necessarily | | - |
| | unidirectional in nature. | | |
| | a. stateless b. stateful c. restricted d. None of these | | |
| | iii. Three major components of virtualized environment are a. guest, host and port | | |
| | b. guest, host and virtualization layer | | |
| | c. guest, port and virtualization layer | | |
| | d. None of these | | |
| | iv. Parallel computing implies | | |
| | ←a. loosly coupled system | | |
| | b. tightly coupled system | 37 11 7 (1 | |
| | c. medium coupled system | | |
| | d. none of these. v. Which is not a common virtualization? | Language weeks | |
| | a. Execution Virtualization | the modernia state of | |
| | b. Network Virtualization | | |
| | c. Storage Virtualization | | |
| | d. Interface Virtualization | | |
| (b) | Fill in the blanks | | |
| | (Live migration, live consolidation, native, private, hybrid, heat) | | |
| | i. The cloud infrastructure is operated for the exclusive use of | of an organization. | |
| 139 | 11. Openstack orchestration is performed using component. | | |
| | iii. Cloud Bursting happens in cloud. | | |
| 3. | iv. Hypervisor that does not need a host operating system is can hypervisor. | alled as | |
| | v. Moving a virtual machine while running from one server to o | other is called as | |
| | | 91 | |
| (c) | Short Answers | × | |
| | i. What is Keystone? | | |
| | ii. What is hardware-assisted virtualization? | | |
| | iii. What is Type II hypervisor? iv. What is SOA? | | |
| | v. What is KVM? | | |
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| Q. 2 | Attempt the following (Any THREE)(Each of 5Marks) | ∖. (15M |
|-------------------|--------------------------------------------------------------------------------|--------------|
| /(a) | Explain the characteristics of Cloud computing as per NIST. | , (13)11 |
| /(b) | Explain the hardware architecture of Parallel Computing. | A MARK |
| (c) | Write a short note on Amazon EC2. | |
| (d) | What is utility computing? | A SIME |
| (e) | Explain the concept of Cloud Computing stack. | |
| (f) | Explain the concept of public, private and hybrid Cloud. | |
| Q. 3 | Attempt the following (Any THREE) (Each of 5Marks) | 44574 |
| (a) | What is Virtualization? Give the major causes for diffusion of virtualization. | (15M) |
| _(b) | Discuss classification or taxonomy of virtualization at different levels. | |
| _(c) | Explain the pros and cons of virtualization. | A THE ST |
| (d) | What are the benefits of virtualization in the context of cloud computing? | Sant A |
| (e) | Explain various features of KVM. | 3 |
| (f) | List some of the challenges in cloud computing, | |
| Q. 4 | Attempt the following (Any THREE) (Each of 5Marks) | (d. ex) |
| (a) | What is Devstack? Explain the steps to install Devstack. | (15) |
| (b) | What are the key components of OpenStack? | -six-e |
| (c) | Explain the concept of Quota in Openstack. | |
| (d) | Explain various deployment models of Openstack | á. |
| - (e) | Explain the architecture of Neutron. | |
| _(f) | Explain the architecture of Nova. | |
| Q. 5 | Attempt the following (Any THREE) (Each of 5Marks) | 180 N. (1.8) |
| _ (a) | Write a short note on Distributed computing | (15) |
| (b) | What are the characteristics of virtualized environments? | |
| (c) | Differentiate between Cinder and Swift in Openstack. | |
| (dd) | Explain the benefits for a start up to implement cloud infrastructure. | |
| (e) | Explain RPC in detail. | |