

(2 ½ Hours)

[Total Marks: 75]

- N.B. 1) All questions are compulsory.
2) Figures to the right indicate marks.
3) Illustrations, in-depth answers and diagrams will be appreciated.
4) Mixing of sub-questions is not allowed.

Q. 1 Attempt ANY FOUR from the following:

(20M)

- What is SOAP? Describe the SOAP Messaging Architecture with a suitable diagram.
- List and discuss different types of virtualizations
- Write a web service method that accepts currency in rupees as a parameter and returns in dollar using JAX-WS.
- How does JAX-RS help in developing RESTful web services? Give an example
- Explain the pros and cons of Virtualization.
- Explain the role of oVirt as a management tool in virtualization environments

Q. 2 Attempt ANY FOUR from the following:

(20M)

- Describe the essential characteristics of Cloud Computing.
- Discuss the fundamental aspects of cloud computing security.
- Write a detailed explanation of IaaS along with an appropriate diagram.
- Explain open challenges of cloud computing.
- Explain the requirements for secure cloud software.
- Write about the fundamental design principles of cloud security.

Q. 3 Attempt ANY FOUR from the following:

(20M)

- Write about the Operations on OpenStack in detail.
- Explain the concept of QUOTAS in OpenStack
- Discuss the working environment and platform used for CloudSim.
- Describe the various features of CloudSim in detail.
- Explain Heat Orchestration in OpenStack.
- Write a note on Architecting on AWS.

Q. 4 Attempt ANY FIVE from the following:

(15M)

- Write a short note on WSDL.
- What are the type of Cloud? Write in short about any one
- Write about the DevStack in short.
- Discuss KVM in Short.
- List different types of cloud platforms and their purposes.
- Write a brief overview of Nova in OpenStack.
