

sem VIII (R) | Branch - I.T | winter 2025 | Q.P. code - 91530
date - 22/08/2025

(Time: 3 Hours)

(Total Marks: 80)

- N.B.:** 1. Question No. 1 is compulsory.
2. Answer any three out of the remaining questions.
3. Assume suitable data if necessary.
4. Figures to the right indicate full marks.

- Q1. Attempt the following (any 4):** (20)
- Why cloud computing is required
 - Explain AWS Lambda
 - Why virtualization is used in cloud computing
 - What is meant by cloud watch
 - Explain anything as a service
- Q2. Attempt the following:**
- Draw and explain the service model of cloud computing (10)
 - What is serverless computing? explain events and functions in it (10)
- Q3. Attempt the following:**
- Explain implementation levels of virtualization (10)
 - Explain PaaS security and SaaS security (10)
- Q4. Attempt the following:**
- Give the advantages and disadvantages of cloud computing (10)
 - Explain IAM, draw its architecture and explain the challenges faced by it (10)
- Q5. Attempt the following:**
- In case of AWS, Explain EC2, instance type and instance lifecycle (10)
 - What is openstack cloud platform? Draw its architecture and explain its modes of operation (10)
- Q6. Write short notes on (any 2):** (20)
- Deployment model
 - KVM architecture
 - Disaster recovery as a service
 - Virtual private cloud in AWS