

**SIDDHARTH INSTITUTE OF ENGINEERING & TECHNOLOGY:: PUTTUR**  
(AUTONOMOUS)

**B.Tech. III Year II Semester Regular Examinations April-2026**

**CLOUD COMPUTING**

(Common to CIC, CAD, CSE & CSIT)

**Time: 3 Hours**

**Max. Marks: 70**

**PART-A**

(Answer all the Questions **10 x 2 = 20** Marks)

- |   |   |   |     |    |    |
|---|---|---|-----|----|----|
| 1 | a | What is cloud computing? List any two characteristics of cloud computing. | CO1 | L1 | 2M |
|   | b | What is scalability and elasticity?                                       | CO1 | L1 | 2M |
|   | c | What is Python? List any two Python data types.                           | CO2 | L1 | 2M |
|   | d | What is a Hadoop cluster?   | CO2 | L1 | 2M |
|   | e | What is AWS?  | CO3 | L1 | 2M |
|   | f | What is Google Cloud Platform?  | CO3 | L1 | 2M |
|   | g | What is Big Data?   | CO5 | L1 | 2M |
|   | h | What is multimedia cloud?   | CO5 | L1 | 2M |
|   | i | What is cloud security?   | CO6 | L1 | 2M |
|   | j | What is organizational readiness?   | CO6 | L1 | 2M |

**PART-B**

(Answer all Five Units **5 x 10 = 50** Marks)

**UNIT-I**

- |           |   |   |     |    |    |
|-----------|---|---|-----|----|----|
| 2         | a | Explain the characteristics of cloud computing. | CO1 | L2 | 5M |
|           | b | What is IAM? Explain its Characteristics.       | CO1 | L2 | 5M |
| <b>OR</b> |   |   |     |    |    |
| 3         | a | Devise MapReduce in cloud computing.            | CO1 | L4 | 5M |
|           | b | Classify cloud storage services                 | CO1 | L4 | 5M |

**UNIT-II**

- |           |   |  |     |    |    |
|-----------|---|--|-----|----|----|
| 4         | a | Justify Hadoop MapReduce job execution.                | CO2 | L5 | 5M |
|           | b | Discuss the components of a Hadoop cluster setup.      | CO2 | L4 | 5M |
| <b>OR</b> |   |  |     |    |    |
| 5         | a | Discriminate the Data Storage Approaches.              | CO2 | L5 | 5M |
|           | b | Briefly Explain Function, Modules, Packages of Python. | CO2 | L2 | 5M |

**UNIT-III**

- |           |   |  |     |    |    |
|-----------|---|--|-----|----|----|
| 6         | a | Determine how Python is used in AWS.                           | CO3 | L3 | 5M |
|           | b | Devise Python for windows Azure.                               | CO3 | L4 | 5M |
| <b>OR</b> |   |  |     |    |    |
| 7         | a | Maximize the document storage app.                             | CO3 | L6 | 6M |
|           | b | Dissect the steps to design a simple RESTful API using Python. | CO3 | L4 | 4M |

**UNIT-IV**

- |           |   |   |     |    |    |
|-----------|---|---|-----|----|----|
| 8         | a | Describe a simple live video streaming application. | CO5 | L4 | 6M |
|           | b | Dissect Load testing. Briefly Explain it .          | CO5 | L4 | 4M |
| <b>OR</b> |   |   |     |    |    |
| 9         | a | Discriminate application performance metrics.       | CO5 | L5 | 5M |
|           | b | Organize multimedia cloud with case studies.        | CO5 | L5 | 5M |

**UNIT-V**

- |           |   |   |     |    |    |
|-----------|---|---|-----|----|----|
| 10        | a | Classify authentication in cloud computing.                 | CO6 | L4 | 5M |
|           | b | Justify authorization in cloud computing.                   | CO6 | L5 | 5M |
| <b>OR</b> |   |   |     |    |    |
| 11        | a | Generalize the cloud contracting models.                    | CO6 | L6 | 5M |
|           | b | Examine the Jurisdictional issues raised by virtualization. | CO6 | L3 | 5M |

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