

**BIRLA INSTITUTE OF TECHNOLOGY, MESRA, RANCHI
(END SEMESTER EXAMINATION)**

**CLASS: BCA
BRANCH: BCA**

**SEMESTER : VI
SESSION : SP/2025**

SUBJECT: CA357 INTRODUCTION TO CLOUD COMPUTING

TIME: 3 Hours

FULL MARKS: 50

INSTRUCTIONS:

1. The question paper contains 5 questions each of 10 marks and total 50 marks.
 2. Attempt all questions.
 3. The missing data, if any, may be assumed suitably.
 4. Before attempting the question paper, be sure that you have got the correct question paper.
 5. Tables/Data hand book/Graph paper etc. to be supplied to the candidates in the examination hall.
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Q.1(a) List the differences between the Classical computing and Cloud computing.	[5]	1	1
Q.1(b) Explain the three milestones that led to Cloud Computing.	[5]	1	2
Q.2(a) State and explain the Cloud Computing Reference models with examples.	[5]	2	2
Q.2(b) Explain the importance of Virtualization in Cloud Computing? Distinguish between the Type1 and Type 2 hypervisors.	[5]	3	3
Q.3(a) Explain the AWS Compute, Storage and Communication services.	[5]	3	2
Q.3(b) What is meant by sandboxing? Explain the Google App Engine architectural concept with suitable diagram.	[5]	4	4
Q.4(a) Describe the high-level architecture for supporting energy-efficient resource allocation in a green cloud computing infrastructure with its main components.	[5]	4	2
Q.4(b) Explain the different levels of Cloud Federation stack.	[5]	3	2
Q.5(a) Explain the applications of cloud computing in healthcare and Business domains.	[5]	4	2
Q.5(b) Describe the Cloudlets for mobile Cloud computing.	[5]	5	2

:::28/04/2025:::M