



RAN-2411000606040002

B.Sc. (IT) (Sem. VI) Examination March - 2026 Fundamentals of cloud Computing (Paper - 604)

Time: 3 Hours]

[Total Marks: 70

સૂચના : / Instructions (1) ઉપરોક્ત દર્શાવેલ વિગતો ઉત્તરવહી પર અવશ્ય લખવી. Fill up strictly the above details on your answer book. (2) All questions are compulsory. (3) Give examples wherever applicable.	Seat No.: <table border="1"> <tr> <td> </td> <td> </td> <td> </td> <td> </td> <td> </td> <td> </td> </tr> </table> Student's Signature						

- Q. 1. Answer following questions. (14)**
- a) What is an Availability Zone? Explain its role in brief. [04]
- b) Explain the Cloud Computing Stack (IaaS, PaaS, SaaS). [05]
- c) Why is Virtualization needed in cloud computing? [05]
- Q. 2. Answer the following. (Any Two) [14]**
- a) Explain Software as a Service (SaaS) with a common example.
- b) Differentiate between Hard Virtualization and Soft Virtualization.
- c) What are the main advantages of using Cloud Computing?
- Q. 3. Answer the following. (Any Two) [14]**
- a) Explain Platform as a Service (PaaS) in detail.
- b) Compare Traditional Computing with Cloud Computing.
- c) What is Cold Storage? Give one example of its use.
- Q. 4. Explain the following in detail. (Any Two) [14]**
- a) Write a note on Relational Database Services (RDS) in the cloud.
- b) Explain Full Virtualization and how it works.
- c) What is Elastic Storage, and how does it help users?
- Q. 5. Answer the following. (Any Two) [14]**
- a) Discuss the role of Distributed Computing in cloud environments.
- b) Explain OS Level Virtualization vs. Hardware Level Virtualization.
- c) “No server is physically required for server-less computing.” Is this statement true? Justify.