Name:.....
Roll No:.....

**MAR ATHANASIUS COLLEGE OF ENGINEERING (AUTONOMOUS),**
**KOTHAMANGALAM - 686666**
**DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING**

**B.TECH FIRST SERIES EXAMINATION, AUGUST 2026 (S7 DS)**
**CDT 401 CONCEPTS IN CLOUD COMPUTING**

Max. Marks: 40 Duration: 1.5 Hours

***PART A***

***Answer all questions. Each question carries 3 marks.***

1. Describe two scenarios in which traditional computing limits the flexibility of a business owner and can be solved by cloud computing.
2. Identify the intended customers of Platform as a Service(PaaS) and explain the type of service offered by PaaS providers.
3. Define virtualization. Describe a scenario where virtualization would be useful.
4. Briefly explain at least three primitive VM operations.

***PART B***

***Answer all questions. Each question carries 14 marks.***

5. (a) Explain the different cloud deployment models. With a neat diagram, illustrate the architecture of Public, Private and Hybrid clouds. (9 marks)
   (b) Explain Service Oriented Architecture(SOA) (5 marks)
6. (a) With a neat diagram, explain the different types of virtual machines. (9 marks)
   (b) Explain the ISA level implementation of virtualization (5 marks)

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**VISION**

"Mould competent professionals to serve as valuable resources for society in pursuit of excellence."

**MISSION**

"Provide quality education tuned to the challenging phases of technology to mould disciplined and socially committed engineers capable of professional leadership with emphasis on theoretical and practical knowledge, critical thinking as well as logical reasoning."