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**MANIPAL ACADEMY OF HIGHER EDUCATION, MANIPAL**  
**MANIPAL SCHOOL OF INFORMATION SCIENCE, MANIPAL**

FIRST SEMESTER MASTER OF ENGINEERING – ME (CLOUD COMPUTING) DEGREE  
EXAMINATION – APRIL 2021 (MAKE UP EXAM)

SUBJECT: CDC 602 – CLOUD ARCHITECTURE AND MANAGEMENT

Wednesday, April 14, 2021

Time: 9.30 – 12.30 Hrs.

Max.Marks:100

**Answer all questions. All questions carry 10 marks.**

1. Briefly explain the need of Distributed computing paradigms and also comment on various Distributed system architecture based on Components and Connectors with suitable Diagram (TLO 1.1) (4 + 6 =10 MARKS)
2. Briefly explain with suitable examples need and types of Cluster Computing. (TLO 2.2) (10 MARKS)
3. Explain the overview with suitable block diagram and essential characteristics of Cloud Computing. (TLO 2.1) (5 + 5=10 MARKS)
4. With suitable diagram explain XaaS Stack architecture of Cloud Computing. (TLO 3.1) (10 MARKS)
5. Write short note on Following with suitable examples. (TLO 3.1) (2.5 \* 4 =10 MARKS)
  - a) IaaS
  - b) PaaS
  - c) Abstracted Service or Server less Computing
  - d) SaaS

6. Briefly explain with suitable example different levels of Machine/Server Virtualization with example and also compare and contrast Virtualization and Emulation. (TLO 4.1 & 4.3)  
(6 + 4=10 MARKS)
7. Briefly explain with suitable diagram EC2 category services of AWS to make web applications Highly available and fault tolerant. (TLO 7.5) (10 MARKS)
8. Briefly explain with suitable diagram a Bullet proof architecture for hosting Low latency, Fast responsive static website. (TLO 7.5) (10 MARKS)
9. Briefly explain Following AWS services with suitable example. (TLO 7.3)  
( 2.5 \* 5 = 10 MARKS)
- a) Cloud Formation
  - b) Cloud Watch
  - c) OpsWork
  - d) SQS
10. Briefly explain architecture components of Web Services and SOA with suitable examples and block diagram. (TLO 7.1) (10 MARKS)

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