Question Paper

MANIPAL ACADEMY OF HIGHER EDUCATION

MANIPAL SCHOOL OF INFORMATION SCIENCES, MANIPAL
FIRST SEMESTER MASTER OF ENGINEERING - ME (CLOUD AOMPUTING) DEGREE EXAMINATION - FEBRUARY 2021
Cloud Architecture and Management [CDC 602]

Marks: 100   **Duration: 180 mins.**

WEDNESDAY, FEBRUARY 17, 2021

Answer all the questions.

1)	Briefly explain the motives and important concepts of Distributed systems and Architecture of Distributed systems with suitable block diagram (TLO 1.2)(4 + 6 Marks)	(10)
2)	Explain the following with suitable block diagram a) Load balancer Cluster model b) Highly available cluster model c) High performance cluster model (TLO 2.3) (4+3 + 3 MARKS)	(10)
3)	Briefly Explain the characteristics and overview of Cloud Computing with Suitable Block diagram (TLO 2.1) (5 + 5 MARKS)	(10)
4)	List service models of Cloud computing with suitable examples and also comment on layers of Cloud stack managed by Cloud Consumer and Provider for each Service models with suitable block diagram (TLO 3.1) (10 MARKS)	(10)
5)	Briefly explain advantages of Virtualization techniques with suitable example and also mention types of Server Virtualization techniques with suitable block diagram (TLO 4.2) (6 + 4 MARKS)	(10)
6)	Briefly explain with suitable example different levels of Machine/Server Virtualization with example and also compare and contrast Virtualization and Emulation (TLO 4.3) (6 + 4 MARKS)	(10)
7)	Briefly explain management category of services available in AWS for managing your Cloud Infrastructure (TLO 7.5) (10MARKS)	(10)
8)	Briefly explain Services to automate or orchestration of Infrastructure in Cloud and cross region replication of Infrastructure (TLO 7.3) (7 + 3 MARKS)	(10)
9)	Briefly explain Following AWS services with suitable example (TLO 7.4) (2.5 * 5 = 10 MARKS) a) VPC b) S3 bucket c) Cloud Front distribution d) Route 53	(10)
10)	Briefly explain following components of Web services with suitable example a) SOAP b) WSDL c) XML d) UDDI (TLO 7.1) (2.5 * 5 = 10 MARKS)	(10)

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