

Question Paper



MANIPAL UNIVERSITY

SCHOOL OF INFORMATION SCIENCES FIRST SEMESTER MASTER OF ENGINEERING - ME (Computing Technologies & Virtualization)

DEGREE EXAMINATION - NOVEMBER 2017

DATE : Saturday, November 18, 2017

TIME : 10:00AM - 1:00PM

Virtualization Techniques [VIR 615]

Marks: 100

Duration: 180 mins.

Answer all the questions.

- 1) What is Client Virtualization? Explain the different types involved in it. (4+6) (10)
- 2) What is a Hypervisor? Write short notes on the types of Hypervisor. (2+8) (10)
- 3) Write a short note on Paravirtualization and explain its relevance. (2+8) (10)
- 4) Write short notes on: (10)
 - a. Server Pooling
 - b. Disaster Recovery. (5+5)
- 5) Explain these key applications with respect to shared storage in virtualization. (10)
 - a. Horizontal Scaling
 - b. Pooled Virtualization (5+5)
- 6) Explain the various steps of Dynamic translation in QEMU. (10)
- 7) Write a brief note on High Availability application in virtualization. (10)
- 8) What is Storage Area Network (SAN)? Explain (10)
- 9) Discuss about the common applications that uses DAS in virtualization. (10)
- 10) Explain the concept of network-based virtualization with respect to three layers of infrastructure in the Storage Virtualization. (10)

-----End-----