Question Paper

MANIPAL ACADEMY OF HIGHER EDUCATION

SCHOOL OF INFORMATION SCIENCES

FIRST SEMESTER MASTER OF ENGINEERING - ME (COMPUTING TECHNOLOGIES AND VIRTUALIZATION)
Virtualization Techniques [VIR 615]

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

END SEMESTER DEGREE EXAMINATION NOVEMBER 2018

Answer all the questions.

1)	Explain a) PARA Virtualization b) Hardware-assisted virtualization (5+5)	(10)
2)	With a neat diagram explain the PUSH request of DOCKER registry (10)	(10)
3)	Explain the Storage Architecture involved in VMWARE infrastructure. (10)	(10)
4)	Explain in detail about CPU Virtualization and briefly explain the types of CPU virtualization. (10)	(10)
5)	What is union filesystem? How does it help in Docker? (3+7)	(10)
6)	What are the different type of servers used in a Data Center? Explain briefly. (10)	(10)
7)	With neat example, explain the steps involved in running a container with lxc (10)	(10)
8)	With a neat diagram explain the fundamental block of Docker. (10)	(10)
9)	Explain the following DOCKER instructions a) The EXPOSE instruction b) The RUN instruction c) The CMD instruction (3+3+4)	(10)
10)	What are the Ten Steps to a Successful DCIM(DATA CENTER INFRASTRUCTURE MANAGEMENT) Implementation? Explain briefly. (10)	(10)

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