



Sanjay Ghodawat University, Kolhapur
Established as State Private University under Govt. of Maharashtra. Act No XL, 2017

Year and Program: 2018-19

M. Tech. Computer Science & Engg.

Course Code : CCC5092

Day and Date: 26-Dec-18 Wednesday

Time: 10:00 AM 1:00 PM

School of Technology

Department of Computer Science & Engg

Course Title: Data Centre Virtualization

End Semester Examination (ESE)

2018-19

EXM/P/09/00

F. Y. M. Tech.

Semester – I

Max Marks: 100

Instructions: 1) All questions are compulsory

2) Figures to the right indicate full marks

3) Draw neat diagrams wherever necessary

		Marks	CO	Level
Q. 1	Answer any TWO			
A)	Explain five stages of virtualization process.	07	CO1	5
B)	Discuss Hypervisor and its types.	07	CO1	6
C)	Explain full virtualization and paravirtualization.	07	CO1	5
Q. 2	Answer any TWO			
A)	Discuss advantages of implementing blade systems versus rack systems?	07	CO1	5
B)	Explain features of Unified computing system.	07	CO1	5
C)	Describe various attributes of UCS service profile.	07	CO1	4
Q. 3	Answer any TWO			
A)	Explain Virtual routing and forwarding (VRF).	07	CO2	5
B)	Justify the statement – ‘Organizations can save money through server consolidation’.	07	CO2	5
C)	Discuss virtual enterprise transport virtualization.	07	CO2	6
Q. 4	Answer any TWO			
A)	Explain levels of virtualization implementation.	10	CO5	4
B)	Describe the role of Hypervisor.	10	CO5	3
C)	Explain advantages and disadvantages on OS level virtualization.	10	CO5	4

Q. 5 Answer any **TWO**

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|----|---|----|-----|---|
| A) | Explain the concept of availability and discuss on role of virtualization in disaster recovery and high availability. | 10 | CO3 | 4 |
| B) | Describe traditional methods of protecting virtual data. | 10 | CO3 | 6 |
| C) | Explain how application clustering helps in scalability and high availability in virtual environments. | 10 | CO3 | 6 |

Q. 6 Answer any **THREE**

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|----|---|----|-----|---|
| A) | Discuss in what ways a virtual cluster can be better or worse compared to a real cluster? | 06 | CO4 | 4 |
| B) | Describe methods of Protecting Virtual Data. | 06 | CO3 | 3 |
| C) | Describe VM backup and recovery techniques. | 06 | CO4 | 3 |
| D) | Explain in brief virtualization of CPU, memory, and I/O devices. | 06 | CO3 | 3 |
