

Name:	
Enrolment No:	

UPES End Semester Examination, May 2023

Course: BCA + IOT	Semester: VI
Program: Oracle VM server for x86: Administration	Time : 03 hrs.
Course Code: CSBC3012	Max. Marks: 100

Instructions: Answer details must relate with awarded marks for each question.

SECTION A (5Qx4M=20Marks)

S. N.	Question	Marks	CO
Q 1	Illustrate your understanding about Hypervisor in CCVT.	4	CO1
Q 2	Justify the need of Virtual Box in Windows platform.	4	CO1
Q 3	Remember the three basic services provided at Data Centers.	4	CO2
Q 4	“At Data centers, you are supposed to service, support, and maintenance of IT infrastructures keeping focus over RAS as a System Administrator”. Explain RAS.	4	CO2
Q 5	Why OracleVM is preferred over VMWare platform to teach this subject?	4	CO3

SECTION B (4Qx10M= 40 Marks)

Q 6	Define Cloud Computing and Virtualization Technology. Justify how Virtualization technology leads to Optimization.	5+5	CO1
Q 7	Mention different resources, which is used by hypervisor to create Virtual Machines.	2.5 x 4	CO1
Q 8	Discuss ITIL, and its key components? OR What is the purpose of ITIL, and how does it benefit organizations?	10	CO2
Q 9	Illustrate your understanding about Virtualization Manager and its functions.	10	CO3

SECTION-C (2Qx20M=40 Marks)

Q 10	Discuss the terms SLA, SPOF, Backups & Restore, and High Availability terms in Data Center functioning. OR Discuss the reason behind: (a). Private/Public Data Centers concept becomes obsolete, and applications are preferred to host on Cloud. (b). Mobile Applications/startup culture become booster for Cloud hosting. (c). Amazon Web Services (AWS) has become a leader in Cloud technologies. (d). Still IBM and other IT infrastructure integrator have no threat from CCVT.	5 x 4	CO1, CO2.
Q 11	(a). Analyze System Administrator functions in server administration. (b). Discuss how AI & ML with the help of Chatbots and Robots, System Administrator jobs are laid off due to automation, which new skills required to adopt to sustain in job market.	10+10	CO3.