

Question Paper

Exam Date & Time: 29-Dec-2022 (02:30 PM - 05:30 PM)



MANIPAL ACADEMY OF HIGHER EDUCATION

VII Semester Makeup Examination

Cloud Computing [ICT 4045]

Marks: 50

Duration: 180 mins.

Descriptive Questions

Answer all the questions.

Section Duration: 180 mins

- 1) Compare and contrast three important delivery services available on cloud. (5)
 - A)
 - B) What type of traffic causes the Storm in network. How to address this issue. (3)
 - C) Compare hybrid and community cloud. (2)
- 2) Rajani has set up Virtual Local Area Network for her business. Can you identify the benefits she gets from such a setup? Also justify each of the benefits. (5)
 - A)
 - B) Identify the reason for the evolution of hardware assisted virtualization. (3)
 - C) Identify the need for VLAN trunking . (2)
- 3) An FC SAN environment consist of a server and a storage array with WWNN as 10:00:02:09:A3:B4:B5:C3 and 11:00:04:09:A3:B4:B5:C3 respectively. The WWPN for the FC switch used to connect the servers are 12 and 18. Domain id for FC SAN is 18. What are different types of zoning which can be enforced in the environment. Show with suitable example and diagram. (5)
 - A)
 - B) Compute the max-min fair allocation for a set of four sources with demands 2, 2.6, 4, 5 when the resource has a capacity of 10. (3)
 - C) Justify the statement "Restoring a VM may take significantly fewer steps, compared to the recovery of physical machines" using suitable examples. (2)
- 4) Cloud provider ABCD acquired SAN systems for providing Storage as a Service. Suggest suitable mechanism which can be adopted by ABCD for profit making with suitable figures. What kind of security mechanisms need to be ensured by the provider. (5)
 - A)
 - B) Ramesh needs to have a VM provisioned with two virtual CPU in dual socket system. As a network administrator, to provide improved efficiency and utilization of CPU resources suggest a suitable resource optimization technique. Justify the choice of selection. Using suitable diagram show the optimized architecture (3)
 - C) Differentiate between the following (2)
 - a. Multi-pathing and NIC Teaming

b. Hypervisor clustering and VM Fault Tolerance

- 5) Compare and contrast different ways of implementing a Web Services using suitable example. (5)
- A)
- B) User X want to access his subscription for accounts of Netflix, Amazon, Youtube via single account. (3)
As a consultant discuss the possible solution(s) and issues you may foresee with the possible solution(s).
- C) Design a workflow for software development life cycle. Give the assumed pre-condition, post-condition, enactment and verification stages. (2)

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