

Tribhuvan University
Institute of Science and Technology
2076
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Bachelor Level / Fourth Year /Seven Semester/Science
Computer Science and Information Technology-(CSc.407)
(Network and system Administration)

Full Marks: 60
Pass Marks: 24
Time: 3 hours.

Candidates are required to give their answers in their own words as far as practicable.
The questions are of equal value.

Attempt any Five questions.

1. (a) How do you convince that packet switching is better than circuit switching? List the functionality of IP layer and Host to Network layer under TCP/IP framework. (2+4)
(b) What are the differences between client and server? How do you perform partitioning of Disk while installing Linux client. (2+4)
2. (a) How do you create Cron job in Linux? Explain with example. (6)
(b) How do you identify that MySQL process is running on Linux? Discuss the steps to backup all the tables of mysql database named 'StudentDB'. (3+3)
3. (a) What is the difference between IPv4 and IPv6 in terms of router processing? (6)
(b) What do you mean by DHCP lease? How DHCP relay works? Explain, (2+4)
4. (a) What are the different types of DNS queries? How does DNS zone transfer occur? (3+3)
(b) Discuss Name based and IP based Virtual Hosting with example. (6)
5. (a) What is ACL? How do you apply Proxy Authentication with RADIUS? Explain. (2+4)
(b) What are the feature of SAMBA-SWAT? Discuss NFS operation basics. (2+4)
6. (a) What are different mail agents and their functions? (6)
(b) How does SMTP relay works? Explain. (6)
7. Write short notes on (**any three**): (4x3)
 - (a) Disk quota management in Linux
 - (b) DNS Cache
 - (c) Operations of Interior Routing Protocol
 - (d) SCP