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Tribhuvan University Institute of Science and Technology 2069

Bachelor Level/ Fourth Year/ Seventh 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 figures in the margin indicate full marks.

Attempt all questions.

- 1. a) Explain the Reference Model.
 - b) What do you mean by switching and routing? Explain the routing algorithm.
- 2. a) Explain the job scheduling with cron.
 - b) Explain the network interface configuration.
- 3. a) How can you diagnose network startup problem? Explain.
 - b) How can you use network troubleshooting command? Explain.
- 4. a) Differentiate between IPV4 and IPV6 addressing.
 - b) Explain the dynamic host configuration protocol (DHCP) principle.
- 5. a) What do you mean by primary and slave name server? Explain.
 - b) Explain the DNS and its principles.
- 6. a) What do you mean by primary and slave name server? Explain.
 - b) Explain the DNS and its principles.
- 7. a) Explain the configuration process of HTTP server.
 - b) Explain the proxy-authentication mechanisms.