

Tribhuvan University
Institute of Science and Technology
2077

Bachelor Level / seventh-semester / Science

Computer Science and Information Technology(O-CSC402)

(Internet Technology (old syllabus))

Candidates are required to give their answers in their own words as far as practicable.

The figures in the margin indicate full marks.

Full marks: 60

Pass marks: 24

Time: 3 hours

Attempt all questions.

- 1. Define internet backbone network. How optical fiber network and satellite can act as an internet backbone network? [2+4]**
- 2. Discuss the IPV6 header structure with each of the elements.[6]**
- 3. What do you mean by PGP? How PGP provides e-mail security?[2+4]**
- 4. What is XMLHttp Request object? How response Text property differs response XML property?[2+4]**
- 5. Why load balancing is needed in the servers ? How dynamic and weighted round robin algorithms can be used for load balancing?[2+4]**
- 6. In a mail server system, discuss the roles of mail transmitting agent, mail delivery agent and mail user agent.[6]**
- 7. What is chanel hosting in IRC? Discuss the components of IRC.[2+4]**
- 8. Discuss the various characteristic features that make cloud computing different than traditional computing?[6]**
- 9. How GOIP differs from VOIP. How does VOIP service work?[3+3]**
- 10. Discuss the building blocks of internet architecture. [2+4]**