

**Tribhuvan University**  
**Institute of Science and Technology**

**2071**

Bachelor Level/ Fourth Year/ Seven Semester/ Science  
Computer Science and Information Technology (CSc. 402)  
(Internet Technology)  
(NEW COURSE)

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 history and development of Internets and Intranets.  
b) Explain the Domain Name System and its uses.
- 2.a) Discuss the IP layer and its importance.  
b) Explain the IPv4 and IPv6 with header structure.
- 3.a) Explain the Universal Internet Browsing.  
b) Mention the different types of protocols and compare them.
- 4.a) Differentiate between WML and XML.  
b) Explain the WYS/WYG Authoring tools.
- 5.a) Explain the load balancing and its applications.  
b) Define the cookies.
- 6.a) Explain the tunneling protocols with example.  
b) What are the benefits and drawbacks of internet?
7. Write short notes on (any three):
  - a. Tele Ports
  - b. Internet RFCs
  - c. Multi-Protocol Support
  - d. Net application
  - e. Data centers