

**Tribhuvan University**  
**Institute of Science and Technology**  
**2076**

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

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**Attempt all questions.**

1. What do you mean by domain name system? How DNS resolves domain name into IP address?
2. Discuss functionalities of TCP. What is the use of 32-bit acknowledge number and sequence number in TCP header?
3. What is RFC? Differentiate POP from IMAP.
4. What is universal internet browsing? What is the need for multiple protocol support?
5. What is WML card and deck? Write a WML script illustrating card and deck.
6. What is the use of RADIUS Server? Discuss the various services provided by the RADIUS.
7. Why proxy servers are needed in internet system? How reverse proxy differs from forward proxy?
8. What is VPN tunneling? How IPSec is used to ensure VPN tunneling?
9. What are the challenges in e-commerce? What does the properties like richness and universal standard means in e-commerce?
10. Define IP interconnection. How transit differs from peering in IP interconnection.