



Tribhuvan University
Faculty of Humanities & Social Sciences
OFFICE OF THE DEAN
2024

Bachelor in Computer Applications
Course Title: Computer Networking
Code No: CACS 303
Semester: V

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

Candidates are required to answer the questions in their own words as far as possible.

Group B

Attempt any SIX questions.

[6×5 = 30]

2. Explain the features of TCP/IP reference model. [5]
3. Define switching. Explain the types of switching. [1 + 4]
4. Explain the ALOHA with its performance. [5]
5. Define IP Address. Explain the classes of IPv4. [1+4]
6. Differentiate between the functions of TCP and UDP. [5]
7. Explain the role of DHCP, FTP and HTTP Protocols. [2 + 1.5 + 1.5]
8. Write short notes on (any two): [2.5 + 2.5]
 - a) RSA
 - b) CRC
 - c) Firewall

Group C

Attempt any TWO questions.

[2×10 = 20]

9. Explain transmission media with their major characteristics. [10]
10. a) Differentiate between static and dynamic routing with suitable example. [5]
b) Define Subnetting. Calculate total number of subnets and hosts per subnet for Network Address 192.168.20.0 and subnet mask is 255.255.255.128 [1 + 4]
11. Write the services provided by Transmission Control Protocol. Explain the TCP header segment in detail. [3 + 7]