

## **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.		16. 5 20%
2%	Explain the features of TCP/IP reference model.	$[6\times5=30]$
3.	Define switching. Explain the types of switching.	[5]
4.	Explain the ALOHA with its performance.	[1 + 4]
Į.	Define IP Address. Explain the classes of IPv4.	
6.	Differentiate between the functions of TCP and UDP.	[1+4]
7.	Explain the role of DHCP, FTP and HTTP Protocols.	[5] $[2+1.5+1.5]$
8.	Write short notes on (any two):	[2.5 + 2.5]
	a) RSA	[2.3   2.3]
	b) CRC	
	c) Firewall	

## Group C

Group C	
Attempt any TWO questions.	$[2 \times 10 = 20]$
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	$\Gamma 1 + A 7$
[4]. Write the services provided by Transmission Control Protocol. Explain the TCP header	
segment in detail.	[3 + 7]