Tribhuvan University Institute of Science and Technology 2081 *

Bachelor Level / Second Year/ Forth Semester/ Science

Computer Science and Information Technology (CSC 263) (Computer Networks)

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

(NEW COURSE)	*
Candidates are required to give their answers in their own words as for as practicable. All figures in the margin indicate full marks.	
Section A	
Long Answer Questions. Attempt any TWO questions.	$[2\times10=20]$
1 A bit stream 1101011011 is transmitted using the standard CRC method polynomials is 10011, what is the actual bit transmitted.	I. The generator [10]
 What are the features of application layer? Why DNS is required? Explain about recursive and iterative DNS queries. Provide reasons for transitions from IPv4 to IPv6. Describe IPv6 datagram formations. 	[2+2+6]
Section B	
Short Answer Questions. Attempt any EIGHT questions.	$[8\times5=40]$
4. Explain about connection oriented network services.	[5]
5. Illustrate the functionality of Media Access Control.	[5]
6. Why do you think Network Functions Virtualization architecture is required? Exp	plain. [5]
7. Assume a class C network and divide it into three subnets. What is the value of the	
8. Differentiate between web server and proxy server.	[5] [5]
9. Explain the working mechanism of token bucket.	[5]
10. What do you understand by PPP protocol? Explain its link setup process.	[1+4]
11. Explain any two wireless transmission medias.	[5]
12. Write short notes on: a. IMAP	[2×2.5=5]

b. ICMP