

## DHARMSINH DESAI UNIVERSITY, NADIAD FACULTY OF TECHNOLOGY B.TECH. SEMESTER V [IT]

SUBJECT: (IT-505) COMPUTER & COMMUNICATION NETWORK

Examination : Block(Regular) Seat No. : \_\_\_\_

Date : 16/10/2015 Day : Friday
Time : 11 to 12:15 pm Max. Marks : 36

## **INSTRUCTIONS:**

- 1. Figures to the right indicate maximum marks for that question.
- 2. The symbols used carry their usual meanings.
- 3. Assume suitable data, if required & mention them clearly.
- 4. Draw neat sketches wherever necessary.

Q.1	Do as directed. [12]	
(a)	Differentiate: TCP and UDP	[2]
<b>(b)</b>	A bit-stuffing based framing protocol uses an 8-bit delimiter pattern of 01111110. If the output bit-string after stuffing is 01111100101, then what was the input bit-string?	g [2]
(c)	Define: (a) Encryption. (b) Confidentiality.	[2]
( <b>d</b> )	What do you mean by reverse path forwarding?	[2]
(e)	Define migratory host.	[2]
<b>(f)</b>	What is optimality principle?	[2]
Q.2 A B	Attempt the following questions.  Explain Framing methods with example.  Briefly explain public key cryptography.	[12] [6] [6]
Q.3	Attempt the following questions.	[12]
A	Which TCP timer is use for the following situation?	[6]
	(1)To handle the zero window-size advertisement.	
	(2)To keeps track of the time between sending of a segment and the receipt of an acknowledgement	
	(3)To prevents long idle connection between two TCPs.	
В	Explain collision free protocols.	[6]