

SVKM's NMIMS
MUKESH PATEL SCHOOL OF TECHNOLOGY MANAGEMENT & ENGINEERING

Programme: MBA. Tech (COMPUTER)

Year: II

Semester: IV

Academic Year: 2015-2016

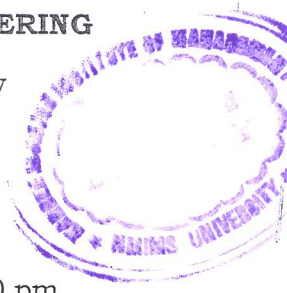
Subject : Computer Network

Date : 07/05/2016

Marks: 60

Time : 2.00 pm to 5.00 pm

Durations: 3 (hrs)



Final-Examination

Instruction: Candidates should read carefully the instructions printed on the question paper and on the cover of the Answer Book, which is provided for their use.

NB:

- 1) Question No.1 is compulsory.
- 2) Out of remaining questions, attempt any 4 questions.
- 3) In all 5 questions to be attempted.
- 4) Give appropriate examples wherever required
- 5) All questions carry equal marks.
- 6) Answer to each new question to be started on a fresh page.
- 7) Figures in brackets on the right hand side indicate full marks.

Q1

a Find the sub network address and the host id for the following

6M

i.

IP Address	Mask
120.14.22.16	255.255.128.0

ii.

IP Address	Mask
140.11.36.22	255.255.255.0

b Compare Circuit and Packet switching

3M

c Compare Bus and Star topology

3M

2a Draw and explain IPv4 header Format

6M

2b Discuss about dynamic channel allocation using various aloha

Protocols

6M

3a Explain the working of hamming code for error detection and correction with an example

6M

3b Discuss the header format of HDLC and also explain its control field for information , supervisory and unnumbered frame

6M

- 4a Discuss about TCP segment header with neat diagram 6M
- 4b Describe GO –Back N sliding window protocol and discuss the problem and its possible solution. 6M
- 5a Explain shortest path algorithm with an example. 6M
- 5b Discuss working of basic Queuing model M/m/1 6M
- 6a List and explain various guided and unguided media with example. 6M
- 6b What is Qos ? What are techniques to achieve good QoS and explain any one technique in detail 6M
- Q7 Write a short note on following (any three) 12 M
1. HTTP Transaction between client and server
 2. SMTP
 3. WWW
 4. DNS

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