# 1622

### M. E. 1st Semester (CSE) Examination

#### ADVANCED COMPUTER NETWORKS

V.C.E. Road, 1

AIN CYBER CAFE (

## Paper-MEC-503

Time allowed : 3. hours Maximum marks : 100

#### *Note* : Attempt any five questions.

- Explain the various design issues of a layered architecture. Highlight in detail a comparative analysis OSI and TCP / IP reference model.
- 2. (a) How is optical fiber different from coaxial cables and its advantages and disadvantages ? 10
  - (b) Discuss in detail about error correcting codes. 10
- 3. Discuss the basic concept of routing and its optionality principle. Also explain the following routing protocols :
  - (i) Shortest path first algorithm
  - (ii) Distance-vector routing protocol. 20
- Explain the basic GSM system architecture. Discuss the concept of frequency reuse, co-channel interference, hand-off, trunking efficiency.
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- 5. (a) Explain the concept of traffic policing and congestion control techniques. 10

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	이상 나라 가격 전 관계 등 것 같이 가지 말했다. 한 것 않는 것 않는 것 않는 것 않는 것 않는 것 같아요. ~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~
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(b)	Discuss the various elements
s * * •	Discuss the various elements of TCP/IP in detail along with their header details.
6. (a)	10
6. (a)	Discuss the ATM reference models in detail. 10
<b>(b)</b>	Explain the concept of it detail. 10
ŭ	Explain the concept of virtual LANs and virtual private networks.
	10
7. (a)	Discuss in detail about the
• • •	Discuss in detail about the various security based protocols in detail.
(b)	
~~/	Explain the telephone switching system in detail.10
8. Write	note on following topics -
(i)	
	Switching techniques
(ii)	Sliding window protocol
	ESP
(iv)	DNS

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