**Important Topics for Term Final**

**Chap 1:**

* Different topologies
* LAN, MAN and WAN

**Chap 2:**

* TCP/IP protocol suite

**Chap 3: (Topics according to slide headings)**

* Time and frequency domains
* Example 3.7
* Composite Signals
* Composite Periodic Signal
* Composite Nonperiodic Signal
* Bandwidth
* Bandwidth Example
* Digital Signal as a Composite Analog Signal
* Transmission Impairment
* Attenuation

Example 3.26

* Distortion
* Noise
* Signal-to-Noise Ratio (SNR)
* Two Cases of SNRs
* Data Rate Limits
* Nyquist Bit Rate: Examples
* Shannon Capacity: Examples
* Relation between bandwidth of frequency and bitrate
* Performance
* Bandwidth-Delay Product
* Math of delay calculation

**Practice problems:**

* Example: 3.7, 3.8, 3.9, 3.10, 3.26, 3.28, 3.45, 3.46, 3.47
* Exercise: related problems

**Chap 4, 5 & 6:**

* Lecture

**Chap 10:** **\*(if in syllabus)**

* the edited slide given in classroom

**Mark Distribution and Question set:**

1 set from Chap 1, 2 & 3

1 set from Chap 4

1 set from Chap 5 & 10 **\*(if in syllabus)**

1 Set from Chap 6 (There will be two sets having or. You will have to answer one)