S.B. Roll No……

COMMUNICATION SYSTEM-II

5th ECE/ECE(II)ETV/EEE /0614/0561/6801/Nov'15

Duration: 3hrs. **M.Marks=75**

SECTION-A

Attempt all the questions **15x1=15**

I. Due to modulation the range of communication _____.
II. _____ is the number of bits transmitted or sent in one second.
III. Extra bits added to the data bits for the detection or correction of errors are called as _____.
IV. Phase difference between two possible transmitted signals in BPSK is_____.
V. In _____transmission, the bits are transmitted over a single wire.
VI. _____ basically means interference between adjacent TDM channels.
VII. Traditional telephone lines can carry frequencies between _____ to _____.
VIII. The _____ are introduced in order to avoid any interference between adjacent channels.
IX. A _____ is defined as the path between two dial switches.
X. The line between subscriber & the network is called as _____.
XI. Each cell is linked to central location called _____.
XII. FAX stands for _____.
XIII. Most fax machines now a day's use _____ for scanning.
XIV. Human voice is best example of _____ data.
XV. _____ is the unit of signaling speed or modulation rate.

SECTION-B

Attempt any SIX questions **6x5=30**

I. What is the difference between analog and digital communication?
II. Explain ASCII code for representing the data.
III. Data bits 1011 have to be transmitted construct the odd parity seven bit hamming code.
IV. With neat block diagram, explain coherent binary FSK Transmitter & Receiver.
V. Compare Synchronous & Asynchronous transmission.
VI. Compare FDM & TDM methods of multiplexing.
VII. Which are the various tones used in telephone system? Mention the frequencies.
VIII. What are the multiplexing techniques used in mobile communication system?
IX. Comparison Email and FAX.

SECTION-C

Attempt any THREE questions

3x10=30

1. **(a)** VRC & LRC Techniques.
(b) BPSK Receiver
(c) RS-232 Serial Interface
2. Draw & Explain the UART Transmitter.
3. Draw the block diagram of mobile phone system & explain the operation.
4. Explain the scanning methods of modern Facsimile.
5. What is the need of MODEM? Explain different types of MODEM.