SAMPLE QUESTION PAPER

Class: ME Electronics(sem I)   Subject Advance digital communication

Multiple choice questions.

1.MIMO system stands for

Maximum input maximum output system.

Minimum input minimum output system.

Multiple input multiple output system

Maximum input minimum output system.

2. LDPC stands for

Local density parity check code

Low density parity check code

Least density parse code

Local density parse code

3. The dimension for LDPC code is

(n,k)

(n,k,r)

(n,tc,tr)

(n,k,L)

4. DFT is the block required for

OFDM transmitter

OFDM receiver

Turbo encoder

Turbo decoder

5. PAPR drawback of OFDM is

Peak to average power reduction

Phase to average power reduction

Peak to associated power reduction

Phase to associated power reduction

6.The function of the equalizer is

To reduce the noise.

To reduce the distortion

To equalize the signal

None of the above.

7. Which of the following sentence is most appropriate

Turbo encoder are complex but simple to decode

Turbo encoder are simple but difficult to decode

LDPC encoder are simple but difficult to decode

None of the above

8.Which of the following code generation requires shift register

Convolutional code

Block code

Cyclic code

Hamming code.

9.FDMA stands for

Frequency division multiple access

Fast division multiple access

Frequent division multiple access

None of the above

10.OFDM is

Orthogonal direct frequency multiplexing

Orthogonal frequency division multiple   access.

Object division multiplexing

None of the above.

Answer the following

1.Compare wide band and strict sense stationary process.

2.Explain how high PAR affects OFDM and discuss various methods of PAR reduction

3.Explain coherence bandwidth and coherence time for multipath fading

4.Draw block diagram and explain decision feedback equalizer.

5.Explain adaptive equalizer technique of equalization.