



**GRT INSTITUTE OF
ENGINEERING AND
TECHNOLOGY, Tiruttani.**

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Department of Electronics & Communication Engineering

III Year - VIth Semester

**WIRELESS COMMUNICATION MCQ
REGULATION – 2017**



EC8652 WIRELESS COMMUNICATION

Total points 45/45 MCQ ?

Email address *

ceramsai@gmail.com

0 of 0 points

NAME OF THE STUDENT *

mohan

REGISTER NUMBER *

1

YEAR *

III

PART-A(30*1=30 MARKS)

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✓ 1. Why neighboring stations are assigned different group of channels in cellular system? * 1/1

- a) To minimize interference ✓
- b) To minimize area
- c) To maximize throughput
- d) To maximize capacity of each cell

✓ 2. Direct sequence spread spectrum demodulation uses * 1/1

- a. DPSK
- b. FSK
- c. ASK
- d. QPSK ✓

✓ 3. The digital modulation technique used in frequency selective channels is * 1/1

- a. FSK
- b. ASK
- c. BPSK ✓
- d. QPSK



✓ 4. OFDM is a technique of 1. Encoding digital data 2. Multiple carrier frequencies 3. Wide band digital communication 4. 4G mobile communication *

1/1

- a. 1, 2 and 3 are correct
- b. 2 and 3 are correct
- c. 1, 2 and 4 are correct
- d. All the four are correct



✓ 5. Advantages of using OFDM include 1. Avoids complex equalizers 2. Low 1/1 symbol rate and guard interval 3. Avoids ISI 4. Multiple users at same frequency *

- a. 1, 2 and 3 are correct
- b. 2 and 3 are correct
- c. 1, 2 and 4 are correct
- d. All the four are correct



✓ 6. The guard interval is provided in OFDM *

1/1

- a. To eliminate the need of pulse shaping filter
- b. To eliminate ISI
- c. High symbol rate
- d. Both a and b



✓ 7.The performance of modulation scheme is not measured in terms of _____* 1/1

- a) Power efficiency
- b) Bandwidth efficiency
- c) Cost and complexity
- d) Transmitted power



✓ 8.In digital communication system, in order to increase noise immunity, it is necessary to increase_____* 1/1

- a) Signal power
- b) Signal amplitude
- c) Signal frequency
- d) Signal magnitude



✓ 9.Which of the following is the ratio of signal energy per bit to noise power spectral density? * 1/1

- a) Bandwidth efficiency
- b) Spectral density
- c) Power efficiency
- d) Power density



✓ 10.A desirable modulation scheme provides _____ bit error rates at 1/1
_____ received signal to noise ratios. *

- a) Low, low
- b) Low, high
- c) High, high
- d) High, low



✓ 11.Minimum shift keying is similar to * 1/1

- a) Continuous phase frequency shift keying
- b) Binary phase shift keying
- c) Binary frequency shift keying
- d) QPSK



✓ 12.In MSK, the difference between the higher and lower frequency is * 1/1

- a) Same as the bit rate
- b) Half of the bit rate
- c) Twice of the bit rate
- d) Four time the bit rate



✓ 13. The technique that may be used to reduce the side band power is * 1/1

- a) MSK
- b) BPSK
- c) Gaussian minimum shift keying
- d) BFSK



✓ 14. The bandwidth of BFSK is _____ than BPSK. * 1/1

- a) Lower
- b) Same
- c) Higher
- d) Not predictable



✓ 15. In Binary FSK, mark and space respectively represent * 1/1

- a) 1 and 0
- b) 0 and 1
- c) 11 and 00
- d) 00 and 11



✓ 16. In Binary Phase Shift Keying system, the binary symbols 1 and 0 are represented by carrier with phase shift of * 1/1

- a) $\pi/2$
- b) π
- c) 2π
- d) 0



✓ 17. The data rate of QPSK is _____ of BPSK. * 1/1

- a) Thrice
- b) Four times
- c) Twice
- d) same



✓ 18. QPSK is a modulation scheme where each symbol consists of * 1/1

- a) 4 bits
- b) 2 bits
- c) 1 bit
- d) M number of bits, depending upon the requirement



✓ 19.If the maximum instantaneous phase transition of a digital modulation techniques kept at 90° , the modulation will be organized as *

1/1

- a)DPSK
- b)QPSK
- c)OQPSK
- d)BPSK

✓ 20.If the baud rate is 400 for a QPSK signal, the rate is *

1/1

- a)200
- b)400
- c)800
- d)1600

✓

✓ 21.Which of the following gives the least probability of error? *

1/1

- a) In Amplitude Shift Keying
- b) In Frequency Shift Keying
- c) In Phase Shift Keying
- d) In Differential Phase Shift Keying

✓



✓ 22. Which gives maximum probability of error? * 1/1

- a) ASK
- b) BFSK
- c) BPSK
- d) DBPSK



✓ 23. The bit rate of digital communication system is 34 M bits/sec. The Baud rate will be in QPSK modulation techniques * 1/1

- 8.5 M bits/sec
- 17 M bits/sec
- 32 M bits/sec
- 64 M bits/sec



✓ 24. Equalization techniques can be categorised into _____ and _____ techniques. * 1/1

- a) Linear, non linear
- b) Active, passive
- c) Direct, indirect
- d) Slow, fast



✓ 25. Which of the following is not an advantage of lattice equalizer? * 1/1

- a) Simple structure
- b) Numerical stability
- c) Faster convergence
- d) Dynamic assignment



✓ 26. In the context of equalizers, LTE stands for _____ * 1/1

- a) Long transversal equalizer
- b) Least time-varying equalizer
- c) Linear transversal equalizer
- d) Linear time-varying equalizer



✓ 27. Which of the following is not a non-linear equalization technique? * 1/1

- a) Decision feedback equalization
- b) Maximum likelihood symbol detection
- c) Minimum square error detection
- d) Maximum likelihood sequence detection



✓ 29.Space diversity s also known as_____*

1/1

- a) Antenna diversity
- b) Time diversity
- c) Frequency diversity
- d) Polarization diversity



✓ 28.Diversity decisions are made by_____*

- a) Receiver
- b) Transmitter
- c) Channel
- d) Adaptive algorithms



PART-B (15*2=30 MARKS)

29 of 29 points



✓ 31. Interleaving is used to obtain _____ diversity. * 2/2

- a) Time
- b) Frequency
- c) Polarization
- d) Antenna



✓ 32. Equalizer is usually implemented in _____ * 2/2

- a) Transmitter
- b) Baseband or at IF in a receiver
- c) Radio channel
- d) Modulator stage



✓ 33. What is the time duration of a bit if data is transmitted at 270.833 kbps 1/1 in the channel? *

- a) 270.833 s
- b) 3 μ s
- c) 3.692 μ s
- d) 3.692 s



✓ 34. In a micro cell zone concept, when a mobile travels from one zone to another within the cell, it retains the same _____* 2/2

- a) Power level
- b) Base station
- c) Channel
- d) Receiver

✓

✓ 35. What was the typical handoff time in first generation analog cellular systems? * 2/2

- a) 1 second
- b) 10 seconds
- c) 1 minute
- d) 10 milliseconds

✓

✓ 36. How much time it takes for handoff in digital cellular systems like GSM? * 2/2

- a) 1 second
- b) 10 seconds
- c) 1 minute
- d) 10 milliseconds

✓



✓ 37. Frequency diversity uses _____ as a diversity element. * 2/2

- a) Correlation coefficient
- b) Coherence time
- c) Coherence bandwidth
- d) SNR



✓ 38. _____ of TDMA system is a measure of the percentage of transmitted data that contains information as opposed to providing overhead for the access scheme. * 2/2

- a) Efficiency
- b) Figure of merit
- c) Signal to noise ratio
- d) Mean



✓ 39. _____ synchronization overhead is required in TDMA due to _____ transmission. * 2/2

- a) High, burst
- b) High, continuous
- c) Low, burst
- d) No, burst



✓ 40. Traffic intensity offered by each user is the product of _____ * 2/2

- a) Set up time and holding time
- b) Call request rate and holding time
- c) Load and holding time
- d) Call request rate and set up time

✓

✓ 41. Which of the following is not an advantage of digital modulation? * 2/2

- a) Greater noise immunity
- b) Greater security
- c) Easier multiplexing
- d) Less bandwidth requirement

✓

✓ 42. Choice of equalizer structure and its algorithm is not dependent on _____ * 2/2

- a) Cost of computing platform
- b) Power budget
- c) Radio propagation characteristics
- d) Statistical distribution of transmitted power

✓



✓ 43. Which of the following is not an algorithm for equalizer? * 2/2

- a) Zero forcing algorithm
- b) Least mean square algorithm
- c) Recursive least square algorithm
- d) Mean square error algorithm



✓ 44. RAKE receiver uses separate _____ to provide the time shifted version of the signal. * 2/2

- a) IF receiver
- b) Equalizer
- c) Correlation receiver
- d) Channel



✓ 45. The time requires to allocate a trunked radio channel to a requesting user is called _____ * 2/2

- a) Dwell time
- b) Holding time
- c) Run time
- d) Set up Time



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