

# NADAR SARASWATHI COLLEGE OF ENGINEERING AND TECHNOLOGY, THENI.

<b>Course/Branch</b> : B.E/ECE	<b>Year / Semester</b> :IV/VII	Format No.	NAC/TLP-07a.13
<b>Subject Code</b> : EC8092	<b>Subject Name</b> :Advanced Wireless Communication	Rev. No.	02
<b>Unit No</b> :03	<b>Unit Name</b> :Space Time Block Codes	Date	30.09.2020

## OBJECTIVE TYPE QUESTION BANK

S. No.	Objective Questions (MCQ /True or False / Fill up with Choices )	BTL
1	The sum of two complex Gaussian random variables is also a _____. a) Real Gaussian b) <b>Complex Gaussian</b> c) All the mentioned d) None of the mentioned.	L3
2	The information bits in Alamouti space time code is first modulated using _____. a) FSK modulation b) PSK modulation c) QPSK modulation d) <b>M ary modulation</b>	L3
3	The code word distance matrix has a .....identical eigen values. a) four b) sixteen c) <b>two</b> d) eight	L3
4	Transmit diversity gets the code gain of _____. a) 2 b) <b>1</b> c) 1.5 d) Between 1 and 2	L3

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5	Space-time block coding is a simple yet ingenious transmit diversity technique in _____. a) SISO technology b) SIMO technology c) <b>MIMO technology</b> d) MISO technology	L3
6	The distance matrixes of any two distinct code words have a full rank of _____. a) 1 b) <b>2</b> c) 4 d) 8	L3
7	The frame length of trellis code is _____. a) 135 symbols b) <b>130 symbols</b> c) 125 symbols d) 120 symbols	L3
8	The .....scheme brought in a revolution of sorts in Multi antenna system. a) Viterbi b) <b>Alamouti</b> c) Okumura d) Hata	L3

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9	The Alamouti Scheme is one such matrix with complex entries for ..... transmit Antenna/Antennas.  a) 1 b) 2 c) 4 d) 8	L3
10	If $R = 1$ it implies.....bandwidth.  a) 0 b) 1 c) 2 d) 3	L3
11	If $R < 1$ it implies .....bandwidth.  a) $1/R$ b) $2/R$ c) $R/3$ d) $R/2$	L3
12	Formula for rate of space time block code is .....  a) $R = P/K$ b) $R = K/P$ c) $R = K/2$ d) $R = K$	L3

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13	IMT Stands for ..... a)International Mobile Telephony b)Interrupted Mobile Telephony c)Interrupted Mobile Telecommunication d) <b>International mobile Telecommunication</b>	L3
14	The unit of efficiency is ..... a) Hz/s/bits b) s/bits/Hz c) <b>bits/s/Hz</b> d) None of the listed.	L3
15	In real signal if the K value is 4 then the transmission period P is ..... a) <b>4</b> b) 2 c) 8 d)16	L3
16	In Complex signal if the K value is 4 then the transmission period P is ..... a) 4 b) 2 c) <b>8</b> d) 16	L3

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17	The inner product of any two rows of matrix is..... a) four b) two c) one d) <b>zero</b>	L3
18	The main disadvantage of Maximum likelihood methods is that they are----- ---- a) mathematically less folded b) mathematically less complex c) Computationally lucid d) <b>Computationally intense</b>	L3
19	Which of the following is wrong statement about DNAML and DNAMLK? a) PHYLIP includes mentioned two programs for this maximum likelihood analysis. b) DNAML estimates phylogenies from nucleotide sequences by the maximum likelihood method. c) DNAMLK estimates phylogenies in the same manner as DNAML d) <b>DNAMLK estimates phylogenies without molecular clock</b>	L3
20	Once all positions in the sequence alignment have been examined, the likelihoods given by each column in the alignment for each tree are -----to give the likelihood of the tree. a) added b) <b>multiplied</b> c) divided d) squared	L3

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21	<p>The maximum likelihood sequence estimator adjusts -----according to ----- environment.</p> <p>a) Transmitter, Receiver</p> <p>b) Receiver, Receiver</p> <p>c) None of the mentioned.....</p> <p>d) <b>Receiver, transmitter</b></p>	L3
22	<p>In Maximum likelihood approach, for each tree, the number of sequence changes or mutations that may have occurred to give the sequence variation is considered.</p> <p>a)<b>True</b></p> <p>b)False</p>	L3
23	<p>The maximum likelihood method can be used to explore relationships among more diverse sequences, conditions that are not well handled by maximum parsimony methods.</p> <p>a)<b>True</b></p> <p>b)False</p>	L3
24	<p>The rank and determinant criteria is also called as-----.</p> <p>a)STC criteria</p> <p>b)<b>TSC criteria</b></p> <p>c)CTS criteria</p> <p>d) None of the above</p>	L3