

NADAR SARASWATHI COLLEGE OF ENGINEERING AND TECHNOLOGY, THENI.

Course/Branch : B.E/ECE	Year / Semester :IV/VII	Format No.	NAC/TLP-07a.13
Subject Code : EC8092	Subject Name :Advanced Wireless Communication	Rev. No.	02
Unit No :01	Unit Name :Capacity of Wireless Channels	Date	30.09.2020

OBJECTIVE TYPE QUESTION BANK

S. No.	Objective Questions (MCQ /True or False / Fill up with Choices)	BTL
1	Who pioneered the wireless industry 100 years ago? a) Edison b) Einstein c) Marconi d) Illingworth	L3
2	Wireless finds its widest expression in a) Only in mobile roles b) Only in fixed roles c) both in fixed and mobile roles d) None of the above	L3
3	bps in wireless communication denotes a) bytes/sec b) bits/section c) bits/sec d) None of the above	L3
4	First mobile communications systems were a) analog b) digital c) both analog and digital d) Not sufficient information	L3

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5	In the beginning of the 1990s, the first digital systems emerged, denoted as a) First generation systems b) Second generation systems c) Third generation systems d) Fourth generation systems	L3
6	The core of this idea of Multiple-Input Multiple-Output Systems is to use ----- ----- both for transmission and reception. a) Singe antenna b) Single antenna at the transmitter and Many antennas at the receiver c) Many antennas at the transmitter and single antenna at the receiver d) multiple antennas	L3
7	-----is the average increase in the signal-to-noise ratio (SNR) at the receiver that arises from the coherent combining effect of multiple antennas at the receiver or transmitter or both. a) Diversity gain b) Antenna gain c) Array gain d) Power gain	L3
8	When the signal power drops significantly, the channel is said to be in a. a) noise b) fade c) block d) power loss	L3

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9	How many types of diversity schemes are there in wireless communications? a) 2 b) 3 c) 4 d) 5	L3
10	The -----of a MIMO channel is the ensemble average of the information rate over the distribution of the elements of the channel matrix H a) Outage Capacity b) Ergodic Capacity c) Both a and b d) None of the above	L3
11	ergodic capacity is the ----- of the CDF curve a) Median b) Mean c) Mode d) Variance	L3
12	----- is the capacity that is guaranteed with a certain level of reliability. a) Shannon Capacity b) MIMO capacity c) ergodic capacity d) Outage capacity	L3

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13	<p>-----is the average increase in the signal-to-noise ratio (SNR) at the receiver that arises from the coherent combining effect of multiple antennas at the receiver or transmitter or both.</p> <p>a) Differential gain</p> <p>b) Lobe gain</p> <p>c) Array gain</p> <p>d) Decibel gain</p>	L3
14	<p>The unit of efficiency is</p> <p>a) Hz/s/bits</p> <p>b) s/bits/Hz</p> <p>c) bits/s/Hz</p> <p>d) None of the listed.</p>	L3
15	<p>In real signal if the K value is 4 then the transmission period P is</p> <p>a) 4</p> <p>b) 2</p> <p>c) 8</p> <p>d) 16</p>	L3
16	<p>In Complex signal if the K value is 4 then the transmission period P is</p> <p>a) 4</p> <p>b) 2</p> <p>c) 8</p> <p>d) 16</p>	L3

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17	The inner product of any two rows of matrix is..... a) four b) two c) one d) zero	L3

