

NADAR SARASWATHI COLLEGE OF ENGINEERING AND TECHNOLOGY, THENI.

Course/Branch : BE/ECE	Year / Semester :IV/VII	Format No.	NAC/TLP-07a.13
Subject Code :EC8092	Subject Name :ADVANCED WIRELESS COMMUNICATION	Rev. No.	02
Unit No :05	Unit Name :LAYERED SPACE TIME CODES	Date	30.09.2020

OBJECTIVE TYPE QUESTION BANK

S. No.	Objective Questions (MCQ /True or False / Fill up with Choices)	BTL
1	_____ is a method employed to improve the reliability of data transmission in wireless communications systems using multiple transmit antennas. A. space time coded systems B. source and channel coding C. spatial coding D. all the above	L2
2	STTC is known as _____ in space time coded. A. selected time trellis codes B. space time trellis codes C. selected time to codes D. space time to codes	L2
3	3.STLC is known as _____ in space time coded . A. space time line codes B. speed time line codes C. speed text line codes D. none of the above	L2
4	STBC is known as _____ in space time code. A. Special time block codes B. Speech to block codes C. space time block codes D. none of the above	L2
5	_____ is a space time coded which transmits multiple, redundant copies of a generalised TCM distributed over time and a number of antennas . A. selected time trellis codes B. space time trellis codes C. selected time to codes D. space time to codes	L2

NADAR SARASWATHI COLLEGE OF ENGINEERING AND TECHNOLOGY, THENI.

Course/Branch : BE/ECE	Year / Semester :IV/VII	Format No.	NAC/TLP-07a.13
Subject Code :EC8092	Subject Name :ADVANCED WIRELESS COMMUNICATION	Rev. No.	02
Unit No :05	Unit Name : LAYERED SPACE TIME CODES	Date	30.09.2020

OBJECTIVE TYPE QUESTION BANK

6	In _____ the space time codes receiver does not know the channel impairments but knows the statistics of the channel. A. noncoherent B. Coherent c. both d. none	L2
7	Space time block codes are optimal with respect to capacity when Code rate is _____ . A.one B. two C. three D. four	L2
8	PLC is known as _____ . A. power load computing B. power line computing C. power link code D. Powerline Communication	L2
9	In space time trellis codes the slope _____ in diversity gain . A. Decreases B. Increases C. Increases then decreases D. Decreases then increases	L2
10	In alamouti model it is assumed that _____ transmit antennas and _____ receive antenna . A.one , one B. two , one C. two ,two d.one ,two	L2

NADAR SARASWATHI COLLEGE OF ENGINEERING AND TECHNOLOGY, THENI.

Course/Branch : BE/ECE	Year / Semester :IV/VII	Format No.	NAC/TLP-07a.13
Subject Code :EC8092	Subject Name :ADVANCED WIRELESS COMMUNICATION	Rev. No.	02
Unit No :05	Unit Name :LAYERED SPACE TIME CODES	Date	30.09.2020

OBJECTIVE TYPE QUESTION BANK

11	For fast fading channels the coherence time of the channel is smaller than of transmitted signal . A. Symbol Period B. Baud rate C. Wave length D. Band width	L2
12	Which of the following is not a channel parameter ? A. Symbol period B. Baud rate C. Bandwidth D. Wave length	L2
13	Level crossing rate is a function of _____. A. Data speed B. System speed C. Signal speed D. Mobile speed	L2
14	which of the reception problems below that is not due to multipath A. Slow fading B. Fast fading C. Both D. none	L2
15	Which of the following is not a principle of shape factor? A.Angle of arrival B.Angle of reflection C.Angle of dispersion D.Angle of refraction	L2
16	Anular construction is a measure of hoe multipath concentrates about azimuthal direction A.ONE B.TWO	L2

NADAR SARASWATHI COLLEGE OF ENGINEERING AND TECHNOLOGY, THENI.

Course/Branch : BE/ECE	Year / Semester :IV/VII	Format No.	NAC/TLP-07a.13
Subject Code :EC8092	Subject Name :ADVANCED WIRELESS COMMUNICATION	Rev. No.	02
Unit No :05	Unit Name :LAYERED SPACE TIME CODES	Date	30.09.2020

OBJECTIVE TYPE QUESTION BANK

	C.THREE D.FOUR	
17	In slow fading channel Doppler spread of the channel much less than the ___of baseband signal A.Wave length B.Bit rate C.Data speed D.Band width	L2
18	For a Rayleigh fading signal mean and median differ by A.055 db B.066 db c.077 db D. 044 db	L2
19	What do you call an attenuation that occurs over many different wavelength of the carrier ? A. Slow fading B. Fast fading C. Both D. None	L2
20	A rare receiver uses multiple A. Correlators B. Detector C.Multipliers D.Adders	L2

NADAR SARASWATHI COLLEGE OF ENGINEERING AND TECHNOLOGY, THENI.

Course/Branch : BE/ECE	Year / Semester :IV/VII	Format No.	NAC/TLP-07a.13
Subject Code :EC8092	Subject Name :ADVANCED WIRELESS COMMUNICATION	Rev. No.	02
Unit No :05	Unit Name :LAYERED SPACE TIME CODES	Date	30.09.2020

OBJECTIVE TYPE QUESTION BANK

21	The complexity of the receiver is an exponential function of the product of the number of _____ & _____ a) transmit antennas and the code memory order b) receiver antenna and the code memory order c) transmit & receiver antenna and the code memory order d) None	L2
22	Iterative receiver can be applied only to coded _____ systems. a) HST b) LST c) MST d)None	L2
23	The interleaved output is canceled a _____ from the preceding received signal. a) inferiori b) superiori c) posteriori d)None	L2
24	Interleaving helps receiver convergence. This is called _____ interference cancellation. a) soft iterative b) hard iterative c) soft & hard iterative d)None	L2
25	A posteriori algorithm is optimum in the sense that it minimizes the _____ at the decoder output. a) error probability b) bit probability c) Bit error probability d)None	L2

NADAR SARASWATHI COLLEGE OF ENGINEERING AND TECHNOLOGY, THENI.

Course/Branch : BE/ECE	Year / Semester :IV/VII	Format No.	NAC/TLP-07a.13
Subject Code :EC8092	Subject Name :ADVANCED WIRELESS COMMUNICATION	Rev. No.	02
Unit No :05	Unit Name :LAYERED SPACE TIME CODES	Date	30.09.2020

OBJECTIVE TYPE QUESTION BANK

26	The capacity behavior of wireless OFDM based on _____ a) time division multiplexing b) spatial multiplexing systems c) multiplexing system d)None	L2
27	The influence of physical parameters such as the amount of delay spread, cluster angle spread, and _____ a) total delay spread b) total cluster angle c) total angle spread d)None	L2
28	System parameters such as the number of antennas and antenna spacing on _____ a) ergodic capacity and outage capacity b) non ergodic capacity and outage performance c) ergodic & non ergodic capacity d)None	L2
29	In OFDM-based spatial multiplexing, each antenna transmits Statistically independent data symbols from _____& _____ a) same antennas and different tones b) same antennas and same tones c) different antennas and different tones. d)None	L2
30	A delay path across the channel are also called _____ a) data pipes. b) data path c) data symbol d)None	L2

NADAR SARASWATHI COLLEGE OF ENGINEERING AND TECHNOLOGY, THENI.

Course/Branch : BE/ECE	Year / Semester :IV/VII	Format No.	NAC/TLP-07a.13
Subject Code :EC8092	Subject Name :ADVANCED WIRELESS COMMUNICATION	Rev. No.	02
Unit No :05	Unit Name :LAYERED SPACE TIME CODES	Date	30.09.2020

OBJECTIVE TYPE QUESTION BANK

31	The orthogonality between the data streams is dependent on the fact that these paths are _____ a) mutually dependent b) not dependent c) mutually independent. d)None	L2
32	_____ variations within the scatterers will be neglected. a) Microdelay b) macrodelay c) delay spread d)None	L2
33	The subscriber unit (SU) is surrounded by local scatterers so that fading at the SU antennas is _____ a) spatially correlated b) spatially uncorrelated c) spatially dependent d)None	L2
34	BTS is high enough so that it is _____ and no local scattering occurs. a) unobstructed b) obstructed c) correlated d)None	L2
35	The relative antenna spacing is denoted as _____ a) = f/d b) = d/λ c) = $d/$ d)None	L2

NADAR SARASWATHI COLLEGE OF ENGINEERING AND TECHNOLOGY, THENI.

Course/Branch : BE/ECE	Year / Semester :IV/VII	Format No.	NAC/TLP-07a.13
Subject Code :EC8092	Subject Name :ADVANCED WIRELESS COMMUNICATION	Rev. No.	02
Unit No :05	Unit Name :LAYERED SPACE TIME CODES	Date	30.09.2020

OBJECTIVE TYPE QUESTION BANK

36	<p>The correlation matrixes already take into account the _____profile of the channel.</p> <p>a) power delay b) time delay c) path delay d)None</p>	L2
37	<p>Spatial multiplexing has the potential to drastically _____the capacity of wireless radio links with no additional power or bandwidth consumption.</p> <p>a) stable b) decrease c) increase d)None</p>	L2
38	<p>The gain in terms of ergodic capacity over SISO systems resulting from the use of multiple antennas is called _____</p> <p>a) multiplexing gain. b) spatial gain c) time gain d)None</p>	L2
39	<p>_____turns a frequency-selective channel into a frequency-nonselective one.</p> <p>a) MIMO b) TDM c) OFDM d)None</p>	L2
40	<p>It is clearly seen that the outage probability decreases significantly with increasing_____.</p> <p>a) cluster spread b) time spread c) delay spread. d)None</p>	L2