- 1. What probability distribution is used to model shadow fading?
 - (a) Log-normal
 - (b) Exponential
 - (c) Rayleigh
 - (d) Uniform
- 2. What is a pilot?
 - (a) A Brazilian punk band from the 1980s
 - (b) A sequence of known (data) symbols transmitted in order to estimate the wireless channel
 - (c) Assignment Project Exam Help
- 3. What is NO nations as included confidence of the Gaussian noise (AWGN)?
 - (a) The noise Accepts Welcdpartdentowner of the signal.
 - (b) Primary source of noise is at the receiver.
 - (c) Noise at two signal samples are independent from each other.
 - (d) Noise is independent of the paths over which signal propagates.
- 4. Which of the following is NOT correct regarding Rayleigh and Rician fading.
 - (a) Rayleigh is a good model when there are large number of small reflectors.
 - (b) K-factor in Rician fading is the ratio of the energy in direct path to the energy in the scattered paths.
 - (c) Rayleigh fading channel has zero-mean Gaussian distributions for both the real and imaginary parts of the channel.
 - (d) Rician fading can be represented by a circularly symmetric complex Gaussian random variable.

- 5. What is the effective capacity from base station (BS) to User with the help of a decode-and-forward (DF) relay? Say that Bs to relay channel and relay to user channel have capacities C_1 and C_2 , respectively.
 - (a) $0.5 * (C_1 + C_2)$
 - (b) $0.5 * \max(C_1, C_2)$
 - (c) $0.5 * \min(C_1, C_2)$
 - (d) $C_1 + C_2$
- 6. What is the effective capacity from BS to User with the help of an Reconfigurable Intelligent Surface (RIS), instead of relay?
 - (a) $0.5 * (C_1 + C_2)$
 - $\underset{(c)}{\overset{(b)}{\sim}} \overset{0.5}{\overset{*}{\overset{max}{\sim}}} \overset{(C_1,C_2)}{\overset{(c)}{\sim}} ent \ Project \ Exam \ Help$
 - $\overset{\mathrm{(d)\ None\ of\ the\ above}}{https://powcoder.com}$

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