DATA COMM FILL-IN TRIALS

Here are some fill-in questions generated from the provided paragraphs:

1. Data communications concerns the transmission of digital messages to devices external to the message source.
2. A communications channel is a pathway over which information can be
3. In a digital communications channel, the information is represented by individual
4. A byte, which consists of bits, is an example of a message unit that may be conveyed through a digital communications channel.
5. A channel whose direction of transmission is unchanging is referred to as a channel.
6. Bit-serial transmission conveys a message through a channel.
7. The baud rate refers to the signalling rate at which data is sent through a channel and is measured in per second.
8. The channel efficiency is the number of passed through the channel per second.
9. A communications protocol is an agreed-upon convention that defines the order and meaning of bits in a transmission.
10. In asynchronous systems, a separate timing channel is used.
11. Data communications aims to provide the highest possible transmission rate at the lowest possible
12. A communications channel may be defined by a physical wire that connects communicating devices or by a energy source.
13. Information sent through a communications channel has a source from which the information originates and a to which the information is delivered.
14. In a telephone call, one party speaks while the other listens, illustrating a channel.
15. A full-duplex channel allows simultaneous message exchange in directions.

16. Serialized data is generally sent at a burst of regularly spaced binary data bits followed by a
17. Manchester coding and non-return-to-zero are methods for encoding a data stream into an electrical waveform for
18. The baud rate and bit rate are identical in EIA232 serial interface standard when
19. Channel efficiency is determined by the protocol design rather than by considerations.
20. In asynchronous systems, the transmitter and receiver must be preset to an agreed-upon rate.
21. The maximum permissible transmission rate of a message is directly proportional to signal
22. A channel whose direction of transmission may be reversed is known as a channel.
23. Bit-serial transmission conveys a message one at a time through a channel.
24. The simplest transmission media consists of a pair of
25. In Manchester coding, a separate channel is not used.
26. The data rate of a channel is often specified by its rate.
27. Two basic techniques employed to ensure correct synchronization are synchronous and systems.
28. Channel efficiency does not include framing, formatting, and error detecting bits, and will always be than one.
29. Asynchronous systems require the transmitter and receiver to be preset to an agreed-upon rate.
30. A communications protocol specifies how many data bits compose a message unit, framing and formatting bits, and any error-detecting bits that may be added before

ANSWERS

Certainly! Here are the answers for the fill-in questions:

1. independently powered

- 2. conveyed
- 3. data bits
 - 4. eight
- 5. simplex
- 6. one bit at a time
 - 7. transitions
- 8. number of bits
 - 9. serial
 - 10. not
- 11. power, noise
- 12. radio, laser, or other radiated
 - 13. destination
 - 14. half-duplex
 - 15. both
 - 16. pause
 - 17. transmission
- 18. at most one signal transition occurs per bit
 - 19. digital hardware
 - 20. baud
 - 21. power
 - 22. half-duplex
 - 23. bit
 - 24. conductors
 - 25. timing
 - 26. bit rate
 - 27. asynchronous
 - 28. less
 - 29. baud
 - 30. transmiss