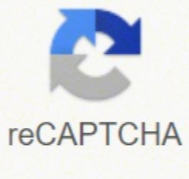
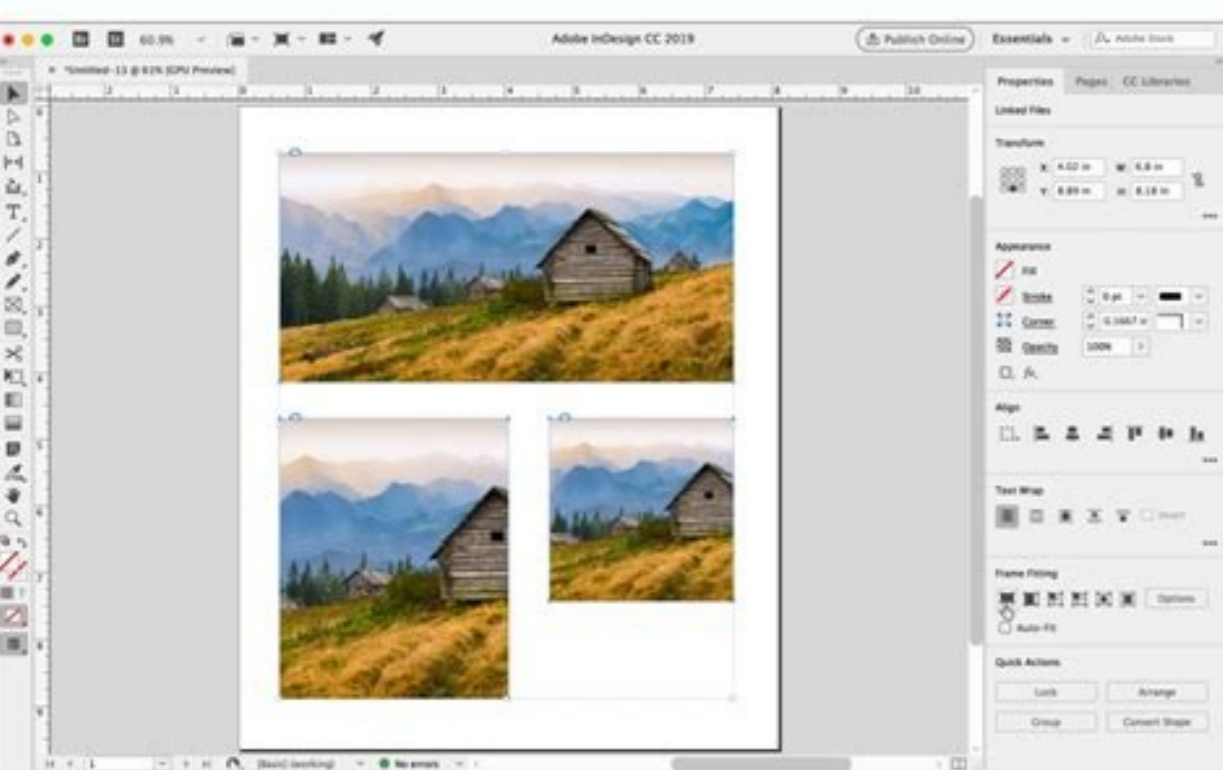
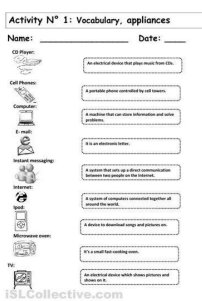




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Open



**5-STEP PATIENT-CENTERED INTERVIEWING**

1. Welcome the patient
2. Use the patient's name
3. Introduce your self and identify specific role
4. Ensure patient readiness and privacy
5. Remove barriers to communication (sit down)
6. Ensure comfort and put the patient at ease

**Step 2 Elicit chief concern and set agenda (1-2 min)**

7. Indicate time available, (eg, "We've got about 20 minutes together today...")
8. Forecast what you would like to have happen in the interview, (eg, "... and I see that we need to review the blood tests you had done yesterday...")
9. Obtain a list of all issues patient wants to discuss; specific symptoms, requests, expectations, understanding, (eg, "... but before we do that, it would help me to get a list of the things you wanted to discuss today." "Is there something else?")
10. Summarize and finalize the agenda; negotiate specifics if too many agenda items, (eg, "You mentioned 8 things you were hoping to cover. In the time we have together today, I don't think we can address them all. Can you tell me which one or two are most troublesome for you; we'll do a good job with those and I'll see you back soon to work on some of the others.")

**Step 3 Begin the interview with non-focusing skills that help the patient to express her/himself (30-40 s)**

11. Start with open-ended request/question, ("Tell me about your headache.")
12. Use non-focusing open-ended skills (attentive listening); silence, neutral attentiveness, nonverbal encouragement
13. Obtain additional data from nonverbal sources: nonverbal cues, physical characteristics, autonomic changes, accoutrements, environment, Self

**Step 4 Use focusing skills to learn 3 things: Symptom Story, Personal Context, and Emotional Context (3-10 min)**

14. Elicit symptom story
  - Description of symptoms, using focusing open-ended skills such as:
    - Echoes (repeat the patient's words, eg, "worsening pain?")
    - Summarize ("First you had a fever, then 2 days later your knee began to hurt, and yesterday you began to limp.")
    - Request ("That sounds important; can you tell me more about it?")
15. Elicit personal context
  - Describe personal/social context of symptoms, patient beliefs/attributions, again using focusing open-ended skills
16. Elicit emotional context
  - Use emotion-seeking skills
    - Direct: "How are you doing with this?" "How does this make you feel?" "How has this affected you emotionally?"
    - Indirect impact (eg, "How has this affected your life?" "What has your knee pain been like for your family?")
    - Beliefs about the problem (eg, "What do you think might be causing your knee pain?"; Self-disclosure (eg, "I think I might be frustrated if that happened to me."); Triggers (eg, "What made you decide to come in now for your...") "What else is going on in your life?")
17. Respond to feelings/emotions
  - Respond with words that empathically address the emotion (NURSE):
    - Name: "You say being disabled by this knee pain makes you angry."
    - Understand: "I can understand your feeling this way."
    - Support: "This has been a difficult time for you. You show a lot of courage."
    - Support: "I want to help you get to the bottom of this and see what we can do."
18. Expand the story
  - Continue eliciting further personal and emotional context, address feelings/emotion with NURSE
19. Brief summary
20. Check accuracy
21. Indicate that both content and style of inquiry will change if the patient is ready ("I'd like to switch gears now and ask you some questions to better understand what might be going on"). Continue with Middle of interview

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In half-duplex systems, the transmission and reception of information must happen alternately. The analog signal is approximated with a series of segments. Differential Pulse Code Modulation has moderate signal to noise magnitude relation. In delta modulation, the transmitted data are reduced to a 1-bit data stream. For a bandwidth of span B, the Nyquist frequency is just 2 B. This ISI is known to receiver. It is the standard form of digital audio in computers, compact discs, digital telephony, and other digital audio applications. Correlative level coding is used to transmit a baseband signal with the signaling rate of 2Bc over the channel of bandwidth Bc. This is made physically possible by allowing ISI in the transmitted in controlled manner. Walkie-talkie radio communication is a half-duplex system, this is characterized by saying "over" at the end of a transmission to signify that the party is ready to receive information. These codes are named in honor of Marcel J. DPCM: DPCM stands for Differential Pulse Code Modulation, is same as Pulse Code Modulation technique used for reworking analog signal into digital signal. It is a tool or algorithmic function that performs quantization is termed a quantizer. It is used for error detection or error correction when data is transmitted over computer networks. Thus, the M possible waveforms all have the same amplitude and frequency but different phases. Power density is much favorable. ... A delta modulation (DM or Δ-modulation) is an analog-to-digital and digital-to-analog signal conversion technique used for transmission of voice information where quality is not of primary importance. Error detection is done and the bipolar too has a correction capability. Digital communication is a mode of communication where the information or the thought is encoded digitally as discrete signals and electronically transferred. The probability of error is much reduced. This process of coding is chosen so as to avoid overlap and distortion of signals such as inter-symbol interference. Golay whose 1949 paper introducing them has been called, by E. For a given bandwidth, the power is efficiently used. The timing content is adequate. Using phase modulation, a dicit can be modulated onto a carrier as a different shift in the phase of the wave. This means that for very small variations in the input signal, the staircase signal is changed by a large amount (Δ) because of the large step size. The jamming margin usually is considered as the jamming power to the signal power, it is a figure of merit and that provides a measure that how vulnerable your system is to interference. The correlative coding is implemented by duobinary signaling and modified duobinary signaling. E. Any one of four patterns from two consecutive bits: 00, 01, 10 and 11. There are two types of Quantization - Uniform Quantization and Non-uniform Quantization. Berlekamp, the "best single published page" in coding theory. The matched filter is the optimal linear filter for maximizing the signal-to-noise ratio (SNR) in the presence of additive stochastic noise. Granular or idle noise occurs when the step size is too large compared to a small variation in the input signal. DM: A delta modulation (DM or Δ-modulation) is an analog-to-digital and digital-to-analog signal conversion technique used for transmission of voice information where quality is not of primary importance. A baseband signal is an original transmission signal that has not been modulated, or has been demodulated to its original frequency. A convolutional code is a type of error-correcting code that generates parity symbols via the sliding application of a boolean polynomial function to a data stream. A pseudo-noise code (PN code) or pseudo-random-noise code (PRN code) is one that has a spectrum similar to a random sequence of bits but is deterministically generated. Some Properties of Line coding are As the coding is done to make more bits transmit on a single signal, the bandwidth used is much reduced. Long strings of 1s and 0s is avoided to maintain transparency. BFSK uses a pair of discrete frequencies to transmit binary (0s and 1s) information. The type of quantization in which the quantization levels are uniformly spaced is termed as a Uniform Quantization. The Nyquist rate or frequency is the minimum rate at which a finite bandwidth signal needs to be sampled to retain all of the information. The Hamming distance between two strings, a and b is denoted as d(a,b). Frequency-hopping spread spectrum is a method of transmitting radio signals by rapidly changing the carrier frequency among many distinct frequencies occupying a large spectral band. The changes are controlled by a code known to both transmitter and receiver. In an ASK system, the binary symbol 1 is represented by transmitting a fixed-amplitude carrier wave and fixed frequency for a bit duration of T seconds. Most telecommunications protocols require baseband signals to be converted, or modulated, to a higher frequency so they can be transmitted over long distances. Matched filters are commonly used in radar, in which a known signal is sent out, and the reflected signal is examined for common elements of the out-going signal. Frequency-shift keying (FSK): It is a frequency modulation scheme in which digital information is transmitted through discrete frequency changes of a carrier signal. Amplitude-shift keying (ASK): It is a form of amplitude modulation that represents digital data as variations in the amplitude of a carrier wave. Pulse-code modulation (PCM) is a method used to digitally represent sampled analog signals. While comparing two binary strings of equal length, Hamming distance is the number of bit positions in which the two bits are different. This is an unwanted phenomenon as the previous symbols have similar effects like noise, thus making the communication less reliable. While one point is transmitting, the other must only receive it. A line code is a code used for data transmission of a digital signal over a transmission line. Data Encoding is the process of converting the data or a given sequence of characters, symbols, alphabets etc., into a specified format, for the secured transmission of data. Different types of Data Encoding Techniques that are available are Digital-to-Digital Encoding Analog to Digital Digital to Analog Analog to Analog In telecommunication, intersymbol interference (ISI) is a form of distortion of a signal in which one symbol interferes with subsequent symbols. The simplest FSK is binary FSK (BFSK). R. Download Free : Digital Communication Interview Questions PDF Quantization in digital signal processing is the procedure of mapping a sizable pair of input values into a smaller set - for instance, rounding values for some unit of precision. The signal constellations consist of M equally spaced points on a circle. M-ary Phase Shift Keying - or MPSK - is a modulation where data bits select one of M phase-shifted versions of the carrier to transmit the data. In mathematics and electronics engineering, a binary Golay code is a type of linear error-correcting code used in digital communications. The binary Golay code, along with the ternary Golay code, has a particularly deep and interesting connection to the theory of finite sporadic groups in mathematics. An eye pattern or eye diagram is an oscilloscope display in which a digital signal from a receiver is repetitively sampled and applied to the vertical input, while the data rate is used to trigger the horizontal sweep. The type of quantization in which the quantization levels are unequal and mostly the relation between them is logarithmic, is termed as a Non-uniform Quantization.

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