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Quiz - Basic Audio Engineering - Chapter #11 - Midterm

1. _____ is made possible through the vibrations of an object displacing the air molecules around it.

- A. Reverb
- B. Sound
- C. Delay
- D. Latency

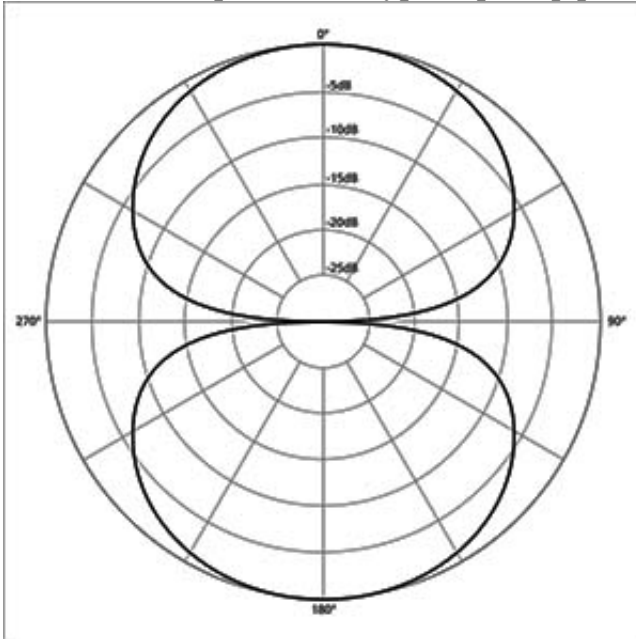
2. Pro Tools is a DAW, which stands for _____ .

- A. Digital Auto Workspace.
- B. Dynamic Audio Workbrowser
- C. Digi Automated Workstation
- D. Digital Audio Workstation

3. _____ is credited as the inventor of the microphone.

- A. Ben Franklin
- B. Alexander Graham Bell
- C. Thomas Alva Edison
- D. Emile Berliner

4. This is an example of what type of pickup pattern?



- A. Bi-Cardioid
- B. Omni-Directional
- C. Bi-Directional
- D. Hyper-Cardioid

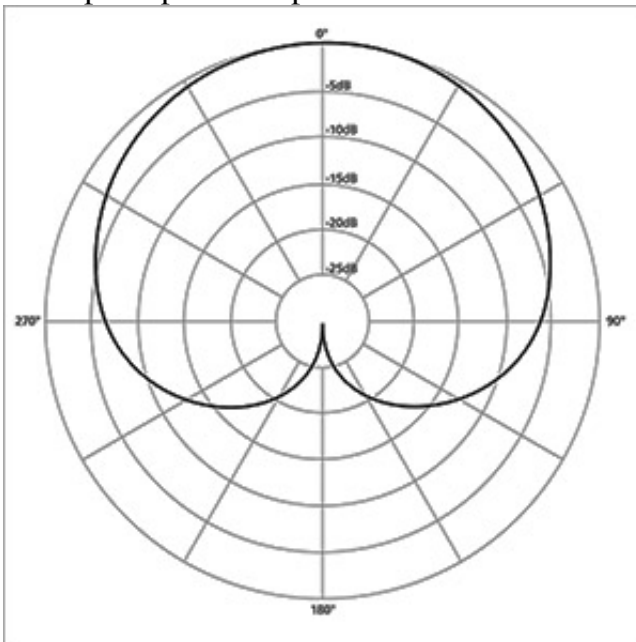
5. _____ refers to the difference between what frequencies a performance is actually transmitting, to what the microphone is capturing.

- A. Frequency Range

- B. Frequency Response
 - C. Frequency Pattern
 - D. Frequency Filter
6. _____ is a delay in the audio signal caused by analog to digital conversion, signal processing, and computer related processes.
- A. Lateness
 - B. Signal Delay
 - C. Latency
 - D. Artifacts
7. In Pro Tools, the _____ has three variations in its drop down menu. Time, separation, and, object.
- A. Grabber Tool
 - B. Scrubber Tool
 - C. Trimmer Tool
 - D. Zoomer Tool
8. Analog signal is a voltage, Digital signal is _____.
- A. Binary Code
 - B. Binaural Code
 - C. Binary Voltage
 - D. 1.23 Volts
9. MIDI transmits an audio signal.
- A. True
 - B. False
10. _____ represents the resolution of possible amplitude values for a digital signal.
- A. Sample Rate
 - B. Sample Timeline
 - C. Bit Rate
 - D. Bit Depth
11. A _____ uses a capacitor in the form of two charged plates to
- A. Dynamic Mic
 - B. Ribbon Mic
 - C. Condenser Mic
 - D. Carbon Mic
12. _____ involves positioning one or more mics between 1 inch and 3 feet from a sound source.
- A. Close Miking
 - B. Accent Miking
 - C. Distant Miking
 - D. Ambient Miking
13. The _____ microphone placement technique is almost identical to the X-Y technique with one variation - two bi-directional mics are used at 90 degree angles.
- A. Blumlein Pair
 - B. ORTF
 - C. Decca Tree
 - D. Mid-Side
14. Avid has been awarded:
- A. A Congressional Medal of Honor, an Oscar, and the Nobel Peace Prize.
 - B. An Oscar, a Grammy, and a People's Choice Award.
 - C. A Grammy, an Emmy, and an Oscar

- D.** The Science and Technology Award for Excellence, an Oscar, and A Grammy.
15. Inserts process _____ of the signal and are inserted directly into your signal flow.
- A.** 50%
 - B.** a user defined percentage
 - C.** 75%
 - D.** 100%
16. Pro Line Level is often expressed as _____.
- A.** -10 dBV
 - B.** +10 dBu
 - C.** -4 dBV
 - D.** +4 dBu
17. The decibel scale we use to measure sound pressure level is _____.
- A.** dB V
 - B.** dB SPL
 - C.** dB u
 - D.** dB Vu
18. _____ microphones use a corrugated piece of metal suspended in a magnetic field. Voltage is created through induction.
- A.** Ribbon
 - B.** Dynamic
 - C.** Carbon
 - D.** Condenser
19. The _____ is used in a tracking session and shows a diagram of the studio and where instruments are set up.
- A.** Input List
 - B.** Channel List
 - C.** Plot List
 - D.** Plot Map
20. The _____ determines the device that makes the plays back the output of Pro Tools.
- A.** I/O Setup
 - B.** Playback Engine
 - C.** Hardware Sync
 - D.** Device Properties
21. _____ Plug-ins process audio signal offline and render files in your Pro Tools.
- A.** RTAS
 - B.** VST
 - C.** Audiosuite
 - D.** AAX
22. The amplitude of an audio signal is measured in _____.
- A.** decibels
 - B.** watts
 - C.** volts
 - D.** Hertz
23. _____ is the measure of the amount of times a sound pressure wave goes from positive to negative pressure in 1 second. It also determines pitch.
- A.** Envelope
 - B.** Amplitude
 - C.** Frequency

- D. Phase
24. _____ is an edit mode in Pro Tools that conforms the cursor, selections, and audio clips to predetermined time values in your edit window.
- A. Shuffle Mode
- B. Grid Mode
- C. Slip Mode
- D. Spot Mode
25. RTAS stands for:
- A. Real Time Audio Sample
- B. Real Tough Audio Section
- C. Real Time Acoustic Sample
- D. Real Time Audio Suite
26. Within the edit tools, the _____ tool is a quick way to lengthen or shorten a clip.
- A. Grabber
- B. Scrubber
- C. Trimmer
- D. Zoomer
27. _____ is a voltage that powers some of the components in most condenser microphones. It is usually a button that is pressed on a pre-amp or mixing console.
- A. Ghost power
- B. Condenser Power
- C. 49+ power
- D. Phantom power
28. What polar pattern is pictured here?



- A. Bi-Directional
- B. Omni-Directional
- C. Cardioid
- D. Ultra-Cardioid
29. Identify these connectors:



Your Answer:

cables

30. The tympanic membrane is a diaphragm like flap of skin that is attached to the three smallest bones in the human body. It is also called the _____.
- A. hammer
 - B. incus
 - C. eardrum
 - D. cochlea
31. _____ is the measurement of the resistance of the flow of electricity.
- A. Capacitance
 - B. Frequency
 - C. Current
 - D. Impedance
32. _____ are the sample rate and bit depth that is known as redbook CD standard.
- A. 48 kHz and 24 bit
 - B. 44.1 kHz and 16 bit
 - C. 48 kHz and 16 bit
 - D. 44.1 kHz and 24 bit
33. _____ microphones were among the first created, and create voltage through the use of loosely packed granules of coal-like material.
- A. Dynamic
 - B. Carbon
 - C. Ribbon
 - D. Condenser
34. In Pro Tools, _____ moves the clip by the user defined grid value based on the clips starting position.
- A. Absolute Grid Mode
 - B. Relative Grid Mode
 - C. Absolute Slip Mode
 - D. Relative Slip Mode
35. Electricity is the flow of free _____ from atom to atom.
- A. Protons
 - B. Neutrons
 - C. Electrons
 - D. Nucleus
36. _____ is the measure of the opposition to the flow of electricity.
- A. Current
 - B. Voltage
 - C. Resistance

D. Wattage

37. The _____ when held over a clip and clicked using the mouse plays a section according to the speed at which the mouse is moved.

A. Grabber tool

B. Scrubber Tool

C. Trimmer Tool

D. Zoomer Tool

38. What has been your favorite lesson so far and why?? (50-100 words)

The Microphone lesson because I never knew there was so many mics to learn from, know, and have memorize. I personally thought it was a good challenge for me to understand and become familiar with. One thing I found very interesting was the fact that Condenser mics was made so long ago in 1878, I was completely blown away by that.

39. What's your opinion of the level of education you have gotten so far? Is there anything we could have done better in the first half?

I probably should be mixing way more

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Turn in for grade