

Sound QUESTIONS

1) The technique used to transmit audio signal in television broadcasts is-

- >amplitude modulation
- >frequency modulation
- >pulse code modulation
- >time division multiplexing

Answer:

- >frequency modulation
-

2) When the same note is played on a sitar and a flute the sound produced can be distinguished from each other because of the difference in;

- >Pitch loudness and quality
- >pitch and loudness
- >quality only
- >loudness only

Answer:

- >quality only
-

3) When the frequency distribution is normal:

- >median mode and mean are all different from one another
- >mean mode and median are identical
- >mean is greater than mode
- >mean is greater than median

Answer:

- >mean mode and median are identical
-

4) The noise level of 100 decibel would correspond to :

- >Just audible sound
- >ordinary conversation
- >sound from a noisy street
- >noise from a machine shop

Answer:

>noise from a machine shop

5) Which one of the following does TV remote control unit use to operate a TV set ?

- >light waves
- >sound waves
- >micro waves
- >radio waves

Answer:

- >radio waves
-

6) Which of the following types is used by computed tomography employed for visualisation of the internal structure of human body ?

- >X-Rays
- >Sound waves
- >magnetic resonance
- >radio-isotopes

Answer:

- >X-Rays
-

7) When light waves pass from air to glass the variables affected are

- >wavelength frequency and velocity
- >velocity and frequency
- >wavelength and frequency
- >wavelength and velocity

Answer:

- >wavelength and velocity
-

8) The velocity of sound produced by a vibrating body varies:-

- >directly as the sq. root of density of the medium
- >inversely as the density of the medium
- >directly as the sq. root of frequency of the medium
- >inversely as the frequency of the medium

Answer:

- >inversely as the density of the medium
-

9) A particle is executing simple harmonic motion. Its total energy is proportional

to its:-

- >displacement from equilibrium position
- >frequency of oscillation
- >square of amplitude of motion
- >velocity at equilibrium position

Answer:

- >square of amplitude of motion
-
-

10) A wave under goes reflection from a rigid boundary. One of its characteristic parameters that changes is-

- >Frequency
- >phase
- >velocity
- >wavelength

Answer:

- >phase
-
-

11) The quality of a musical note depends upon

- >its amplitude
- >its frequency
- >the wave velocity
- >its harmonic content

Answer:

- >its harmonic content
-
-

12) In vaccum the speed of light

- >depends on its wavelength
- >depends on its frequency
- >depends on its intensity
- >neither depends on its wavelength frequency nor intensity

Answer:

- >neither depends on its wavelength frequency nor intensity
-
-

13) Which among the following in the necessary condition for simple harmonic motion ?

- >Constant period
- >constant accleration

- >acceleration is proportional to the displacement from mean position and is always directed towards it
- >displacement and torque are proportional

Answer:

- >acceleration is proportional to the displacement from mean position and is always directed towards it
-
-

14) Sound moves with higher velocity if

- >pressure of the medium is decreased
- >temperature of the medium is increased
- >humidity of the medium
- >both (b) and (c)

Answer:

- >both (b) and (c)
-
-

15) Which one of the following is not electromagnetic in nature ?

- >Cathode rays
- >X-Rays
- >gamma-rays
- >Infrared rays

Answer:

- >Cathode rays
-
-

16) Which of the following is used in oven

- >X-rays
- >UV-rays
- >Microwaves
- >Radiowaves

Answer:

- >Microwaves
-
-

17) Which one of the following has highest frequency ?

- >cosmic rays
- >x-rays
- >radiowaves
- >microwaves

Answer:

>cosmic rays

18) Which of the following electromagnetic waves has the longest wavelength ?

- >Infrared rays
- >gamma rays
- >light rays
- >ultraviolet rays

Answer:

- >Infrared rays
-
-

19) X-rays were discovered by

- >Roentgen
- >Becquere
- >Curei
- >Van Lane

Answer:

- >Roentgen
-
-

20) Doppler effect is independent of

- >velocity of source
- >velocity of listener
- >distance between source and observer
- >none of these

Answer:

- >distance between source and observer
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