## BALABHADRA SKILL DEVELOPMENT ACADEMY SCIENCE QUESTION BANK - 12

Time:	Hour Full marks: 55 Pass marks: 4	14
1.	is said to be done whenever a force acts on a body and the body m	ove
	in the direction of the force.	
2.	The SI unit of work is	
2(a)	1 Joule = X	
3.	Work done on an object by a force would be if the displacement of object is zero.	the
4.	An object having capability to do work is said to possess	
5.	has the same unit as that of work.	
6.	An object in motion possesses energy,	
7.	The energy possessed by a body due to its change in position or shape is ca the	lled
8.	The gravitational potential energy of an object of mass, at height 'h' is	
9.	Law of conservation of energy is	
9(a)	Total energy before and after transformation	
10.	The sum of the kinetic and potential energies of an object is called its	
11.	Power is defined as	
12.	SI unit of power is	
13.	1 W =	
14,	The energy used in one hour at the rate of 1kW is called	
15.	Work done is when the force is in the direction of displacement.	
16.	Work done is when the force acts opposite to the direction	of
	displacement.	
17.	Work done = X	
18.	of a body is defined as its capacity to do work.	
19.	Work is a quantity.	
20.	Kinetic Energy =	
-21.	The rate of doing work is called	
22.	Power =/	
23.	Sound is produced due to of different objects.	
24.	Sound travels as a through a material medium.	
25.	Sound travels as successive and in the medium.	
26.	In sound propagation, it is the of the sound that travels and not.	-
27.	Sound cannot travel in	
28.	The change in density from maximum value to the minimum value and ag	gain
	to the maximum value makes one complete	-
. 29.	The distance between two consecutive compressions or two consecu	tive
	rarefactions is called the,	
30.	The time taken by the wave for one complete oscillation of the density	or or
	pressure of the medium is called the	
	The number of complete oscillations per unit time is called the	
	Frequency =/	
31(b)	Speed of Sound = X	



32.	The speed of sound depends primarily on and of the transmitting medium.
33.	The law of reflection of sound states that the directions in which the sound is incident and reflected make with the normal to the reflecting surface at
	the point of incidence and the three lie in the plane.
34.	For hearing a distinct sound, the time interval between the original sound and the reflected one must be at least
35.	The persistence of sound in an auditorium is the result of repeated of sound and is called
36.	Sound properties such as pitch, loudness and quality are determined by the corresponding
37.	is a physiological response of the ear to the intensity of sound.
38.	The amount of sound energy passing each second through unit area is called
	the
39.	The audible range of hearing for average human beings is in the frequency range of
40.	Sound waves with frequencies below the audible range are called and
	those above the audible range are called and
41.	Sound industrial applications.
42.	The technique is used to determine the depth of the sea and to locate under water hills, valleys, submarines, icebergs, sunken ships etc.
43.	motion repeats itself in equal intervals of time.
14.	SI unit of Time Period
45.	The number of oscillations completed by an oscillating body per second is called
46.	SI unit of Frequency is
<del>1</del> 7.	is equal to reciprocal of time period.
18.	is a wave of short duration.
19.	is the distance travelled by the wave in one second.
50.	The number of waves contained in unit length of the medium is called
51.	Wave number is reciprocal of

## BALABHADRA SKILL DEVELOPMENT ACADEMY SCIENCE QUESTION BANK – 12(ANSWER)

- 1. Work
- 2. Joule
- 2(a) 1 newton × 1 metre
- zero
- Energy
- Energy
- kinetic
- potential energy
- mgh
- energy can only be transformed from one form to another; it can neither be created nor destroyed
- 9(a) remains constant
- 10. mechanical energy
- 11. rate of doing work
- 12. watt
- 13. 1 J/s.
- 14. 1 kWh
- Positive
- 16. Negative
- 17. Forcex displacement
- 18. Energy
- 19. scalar
- 20. 1/2 mv2 (m- mass v- valouring)
- 21. Power
- 22. Work, time
- 23. vibration
- longitudinal
- 25. compressions, rarefactions
- 26. energy, particles of medium
- 27. vacuum
- 28. oscillation
- 29. wavelength
- 30. time period
- frequency
- 31(a) 1, time period
- 31(b) Wavelength X Frequency
- 32. nature, temperature
- 33. equal angles, same
- 34. 0.1 s
- 35. reflection, reverberation
- 36. wave properties
- Loudness

- 38. Intensity of sound
- 39. 20 Hz 20 kHz
- 40. Infrasonic, ultrasonic
- 41. Ultrasonic
- 42. SONAR
- 43. Periodic
- 44. Second
- 45. Frequency
- 46. Hertz
- 47. Frequency
- 48. wave pulse
- 49. wave velocity
- 50. Wave number
- 51. Wavelength

