



ELITE

PHYSICS

FORCE, FRICTION & PRESSURE

- While taking off synthetic clothes, seeing a spark or hearing a crackle, are due to
 - an motion of charge through air.
 - production of shock wave
 - electric dis charge
 - cannot be explained.
- During dry weather while combing hair, we experience hair flying apart. The force responsible for this is,
 - force of gravity.
 - electrostatic force
 - force of friction.
 - magnetic force.
- The pressure exerted by liquid due to increase in depth
 - Reduces
 - increases.
 - remain same
 - None of the above.
- which of the following is non contact force?
 - Force of Friction.
 - Electromagnetic force
 - Muscular Force.
 - Mechanical force.
- The wear and tear. can be prevented using.
 - Lubrication
 - Ball Bearings.
 - Polishing
 - All of the above.

SOUND

- Vibrations in a body produce.
 - Sound
 - Pressure
 - Density
 - Current
- A characteristic of sound which depends on its amplitude is as
 - Pitch
 - speed
 - quality
 - loud ness

3. Ultrasound, can penetrate matter to larger extent because re
 - a) higher frequency.
 - b) high speed
 - d) high amplitude
 - c) high quality

4. By Number of oscillations per second is called
 - a) Time period.
 - b) Wavelength
 - c) Frequency
 - d) Amplitude

5. A human heart beats 60 times a minute. Its frequency will be
 - a) 12 Hz
 - b) 1.2Hz
 - c) 1.0 Hz
 - d) 11 Hz

HEAT

1. Heat flows from.
 - a) Hot body to cold body.
 - b) In Both direction
 - c) cold body to hot body.
 - d) None of the above

2. Plastic wire is
 - a) Pusulatar
 - b) conductor
 - c) semi conductor
 - d) Both

3. One litre water at 20°c is mixed with one litre of water at 40°C . The temperature of the mixture will be
 - a) 60°c
 - b) more than 40°C but less than 20°C
 - c) Between 20°C & 40°C
 - d) 20°C

4. Triple point of water is
 - a) 100°C
 - b) 0°C
 - c) 50 K
 - d) 100 K

5. The temperature of water below frozen lake will be
 - a) -10°C
 - b) 0°C
 - c) 4°C
 - d) -4°C

LIGHT

1. The person cannot see vertical or horizontal lines. is having defect
 - a) Myopia
 - b) cataract
 - c) Presbiopia
 - d) None of the above.
2. Rainbow can be seen when
 - a) sun is in front of you.
 - b) Sun is behind you
 - c) sun is at overhead
 - d) only at sunrise
3. stars twinkle due to
 - a) Reflection of light
 - b) Diffraction of light
 - c) Refraction of light
 - d) Dispersion of eight.
4. An object appears blue when seen in a white light when seen in red light, it will appear
 - a) Black
 - b) Blue
 - c) Red
 - d) Green
5. To get an inverted image you can use how many types or combination of lens and mirrors?
 - a) 3
 - d) 4
 - c) 5
 - d) 6

CURRENT ELECTRICITY

1. Rate of flow of charge is called.
 - a) Power
 - b) work
 - c) Energy
 - d) Current
2. Commercial unit of energy is
 - a) watt
 - b) Kwh
 - c) Joules
 - d) Horse power
3. With increase in resistance, heating effect.
 - a) Decrease
 - b) Increase
 - c) Nothing happens
 - d) None of the above

4. An electrolyte works on the principle of
- a) Heating effect
 - b) chemical effect
 - b) magnetic effect
 - d) None of these.
5. To conduct electricity, there should be free
- a) ions
 - b) solution
 - c) battery
 - d) non-metal

MAGNETISM

1. The first discovered magnet was.
- a) Iron
 - b) Steel
 - c) Load stone
 - d) Nickle Oxide
2. Two like poles.
- a) Repel
 - b) attract
 - c) First repel then attract
 - d) None of above
3. All magnetic material loses magnetism when
- a) Dipped in al
 - b) brought near a piece of iron.
 - c) Heated
 - d) cooled.
4. Magnet used in electric bell is
- a) temporary magnet
 - c) Bar Magnet
 - b) Permanent magnet
 - d) None of the above
5. At equator a compass needle will point in
- a) east direction
 - b) North-south direction
 - c) West direction
 - d) north- west direction.

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