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General Knowledge

Physics
(Practice Assignment 01)

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Physics Practice Assignment 01

DIRECTION for questions 1 -40: Mark the best option:

1. Pressure is measured in terms of _____
A) Mass & Density B) Work Done
C) Force and Area D) Force and Distance
2. The instrument used to regulate temperature to a particular degree is called
A) Thermostat B) Thermometer
C) Pyrometer D) Thermocouple
3. What is the maximum sound after which humans start feeling pain in their ears?
A) About 120 dB B) About 70 dB
C) About 80 dB D) About 90 dB
4. A stick immersed in water appears bent due to the phenomenon of _____.
A) Reflection of light B) Diffraction of light
C) Refraction of light D) Dispersion of light



5. The car stops on applying brakes due to _____.
A) Centripetal force B) Centrifugal force
C) Inertia D) Frictional force
6. Which of the following is not a function served by sun with respect to earth?
A) Stable climate B) stabilizes earth's wobble
C) Formation of tides D) charges ionosphere
7. Milk pasteurization is done to
A) kill any virus present in milk
B) kill any fungus present in
C) kill any algae present in milk
D) kill any bacteria present in
8. Thermostat is a device in ovens which helps to maintain a temperature by:
A) completing the circuit
B) breaking the circuit
C) adding a component to the circuit
D) removing a component from the circuit



9. Galvanization is a process in which a layer of zinc is applied to protect the substance from:
- A) Rusting B) Bending
C) Corroding D) Disintegrating
10. In honour of which indian nuclear physicist was the Atomic Energy Establishment at Bombay renamed?
- A) C.V. Raman
B) Ramakrishna Ramanathan
C) Homi J. Bhabha
D) Raja Ramanna
11. Which of the following is used to detect object under water in the technique called Sonar
- A) electromagnetic waves
B) UV rays
C) Visible light
D) Sound
12. "Fermi" is the unit of
- A) Mass B) Frequency
C) Length D) Infrared waves



13. _____ is a positively charged particle emitted by a radioactive element.
- A) Alpha ray B) Beta ray
C) Gamma ray D) Cathode ray
14. Escape velocity of a rocket fired from the earth towards the moon is a velocity to get rid of the:
- A) Centripetal force due to Earth's revolution
B) Earth's gravitational pull
C) Centripetal force due to Earth's rotation
D) Moons gravitational pull
15. Which polymer is used to manufacture electric switches, computer disks etc.?
- A) White Clay B) Polystyrene
C) Bakelite D) None of these
16. Planimeter is used to measure _____
- A) Direction B) Road Distance
C) Areas D) Height of a region



17. What remains constant while throwing a ball upwards?
- A) Kinetic Energy B) Acceleration
C) Velocity D) Displacement
18. _____ is used for constructing filament of the World's thinnest light bulb?
- A) Graphite B) Graphene
C) Carbon D) Tungsten
19. Which of the following are optical illusions?
- A) Twinkle of stars in the sky
B) Rainbow
C) Auroras
D) All of these
20. The first quantitative measurements of the speed of light was determined by
- A) Ole Roemer B) Claudius Ptolemy
C) Charles Messier D) Edmond Halley



21. The lens used in a camera, to form an image on a piece of film at the back, is
- A) convex lens B) concave lens
C) diverging lens D) none of the above
22. Doldrums is an area of
- A) Low temperature B) Low rainfall
C) Low pressure D) Low humidity
23. Moore's law is related with
- A) Carrying capacity of environment.
B) Population and demography with special reference to 'Malthusianism economics'.
C) Geographical phenomenon of earthquakes.
D) The number of transistors on integrated circuits.
24. What are Nanoflares?
- A) Miniature solar flares, which are less energetic than the regular solar flares.
B) New nano particles designed to give targeted heating to defective spots in metal surface
C) New lenses created using nano technology to generate different shades of visible light.
D) A device to create piezoelectric effect at nano scale.



25. Colour of stars depend on their
A) Temperature B) Distance
C) Radius D) Atmospheric pressure
26. "Mach number" is a measure of which of the following?
A) Liquid pressure B) Speed
C) Heat D) Volume
27. The amount of substance in the SI system of units is represented by
A) Candela B) Mole C) Weight D) Kilogram
28. A man standing on a boat in still water. If he walks towards the shore the boat will
A) Move away from the shore
B) Remain stationary
C) Move towards the shore
D) Sink
29. The period of pendulum depends upon
A) Height B) Length
C) Amplitude D) Energy



30. "Diopter" is the unit of measurement of _____ .
- A) Heat B) Sound
C) Energy D) power of a lens
31. Which among the following metal is highest electrical conductivity as well as highest thermal conductivity?
- A) Gold B) Silver
C) Platinum D) Iron
32. A device which converts chemical energy into electrical energy is called _____
- A) motor B) generator
C) moving-coil meter D) battery
33. What is the SI unit of temperature?
- A) Kelvin B) Joule C) Celsius D) Fahrenheit
34. In the formula average velocity = $(u+v) / 2$, u is the _____.
- A) Final velocity B) Initial displacement
C) Initial velocity D) Final Displacement



35. Electric Motor works on the principle of
- A) Newton's Law
 - B) Ohm's Law
 - C) Electromagnetic Induction
 - D) Darwin's Theory
36. Which prefix is often used with scientific terms to indicate that something is the same or equal or constant?
- A) Quasi B) Meta C) Mega D) Iso
37. Echoes are produced by:
- A) reflection of sound waves
 - B) dispersion of sound waves
 - C) refraction of sound waves
 - D) existence of other waves
38. We see the flash of lightning before hearing the thunder because:
- A) light travels faster than sound
 - B) sound travels faster than light
 - C) lightning occurs before thunder
 - D) thunder occurs before lightning



39. Which one of the following types of glass can cut off ultraviolet rays?
- A) Soda glass B) Pyrex glass
C) Jena glass D) Crooked glass
40. Barometer is used to measure which of the following?
- A) Atmospheric pressure
B) Purity of milk
C) Temperature
D) Altitude



Answer Key

Q. No.	Key	Q. No.	Key
1.	A	21.	A
2.	A	22.	C
3.	A	23.	D
4.	C	24.	A
5.	D	25.	A
6.	D	26.	B
7.	D	27.	B
8.	B	28.	A
9.	A	29.	B
10.	C	30.	D
11.	D	31.	B
12.	C	32.	D
13.	A	33.	A
14.	B	34.	C
15.	C	35.	C
16.	C	36.	D
17.	B	37.	A
18.	B	38.	A
19.	D	39.	D
20.	A	40.	A