

Kerala PSC Physics Questions

1. What is the SI unit of force?

- A) Joule
- B) Newton
- C) Watt
- D) Pascal

Answer: B) Newton

2. Which instrument is used to measure temperature?

- A) Barometer
- B) Thermometer
- C) Ammeter
- D) Hygrometer

Answer: B) Thermometer

3. The SI unit of work is:

- A) Newton
- B) Joule
- C) Watt
- D) Volt

Answer: B) Joule

4. Which force keeps the planets in their orbits?

- A) Magnetic force
- B) Electrostatic force
- C) Gravitational force
- D) Frictional force

Answer: C) Gravitational force

5. Which mirror is used as a rear-view mirror in vehicles?

- A) Plane mirror
- B) Concave mirror
- C) Convex mirror
- D) Cylindrical mirror

Answer: C) Convex mirror

6. Which color of light has the shortest wavelength?

- A) Red
- B) Green
- C) Blue
- D) Violet

Answer: D) Violet

7. The speed of light in a vacuum is approximately:

- A) 3×10^6 m/s
- B) 3×10^7 m/s
- C) 3×10^8 m/s
- D) 3×10^9 m/s

Answer: C) 3×10^8 m/s

8. Sound cannot travel through:

- A) Air
- B) Water
- C) Iron
- D) Vacuum

Answer: D) Vacuum

9. The SI unit of power is:

- A) Joule
- B) Watt
- C) Newton
- D) Volt

Answer: B) Watt

10. Which law explains the relationship between force, mass, and acceleration?

- A) Newton's First Law
- B) Newton's Second Law
- C) Newton's Third Law
- D) Ohm's Law

Answer: B) Newton's Second Law

11. The energy possessed by a moving object is:

- A) Potential energy
- B) Kinetic energy
- C) Chemical energy
- D) Nuclear energy

Answer: B) Kinetic energy

12. Which instrument measures electric current?

- A) Voltmeter
- B) Ammeter
- C) Galvanometer
- D) Ohmmeter

Answer: B) Ammeter

13. The SI unit of electric resistance is:

- A) Volt
- B) Ohm
- C) Ampere
- D) Watt

Answer: B) Ohm

14. Which device converts electrical energy into mechanical energy?

- A) Generator
- B) Electric motor
- C) Battery
- D) Transformer

Answer: B) Electric motor

15. The unit of electric power is:

- A) Joule
- B) Watt
- C) Coulomb
- D) Volt

Answer: B) Watt

16. Which metal is commonly used for electrical wiring?

- A) Iron
- B) Copper
- C) Lead
- D) Zinc

Answer: B) Copper

17. Which phenomenon causes the blue color of the sky?

- A) Reflection
- B) Refraction

- C) Scattering of light
- D) Dispersion

Answer: C) Scattering of light

18. A rainbow is formed due to:

- A) Reflection only
- B) Refraction only
- C) Dispersion, refraction, and reflection of light
- D) Diffraction

Answer: C) Dispersion, refraction, and reflection of light

19. Which lens is used to correct short-sightedness (myopia)?

- A) Convex lens
- B) Concave lens
- C) Cylindrical lens
- D) Bifocal lens

Answer: B) Concave lens

20. Which lens is used as a magnifying glass?

- A) Concave lens
- B) Convex lens
- C) Cylindrical lens
- D) Plane lens

Answer: B) Convex lens

21. The SI unit of frequency is:

- A) Decibel
- B) Hertz
- C) Newton
- D) Joule

Answer: B) Hertz

22. Which of the following is a renewable source of energy?

- A) Coal
- B) Petroleum
- C) Solar energy
- D) Natural gas

Answer: C) Solar energy

23. Which energy conversion takes place in an electric bulb?

- A) Electrical to mechanical
- B) Electrical to light and heat
- C) Chemical to electrical
- D) Heat to electrical

Answer: B) Electrical to light and heat

24. Which law states that "for every action, there is an equal and opposite reaction"?

- A) Newton's First Law
- B) Newton's Second Law
- C) Newton's Third Law
- D) Law of Gravitation

Answer: C) Newton's Third Law

25. Which of the following is a good conductor of heat?

- A) Wood
- B) Plastic
- C) Copper
- D) Rubber

Answer: C) Copper

26. The device used to measure atmospheric pressure is:

- A) Thermometer
- B) Hygrometer
- C) Barometer
- D) Anemometer

Answer: C) Barometer

27. Which of the following is a non-contact force?

- A) Frictional force
- B) Muscular force
- C) Gravitational force
- D) Normal force

Answer: C) Gravitational force

28. Which instrument measures voltage?

- A) Ammeter
- B) Voltmeter
- C) Ohmmeter
- D) Galvanometer

Answer: B) Voltmeter

29. Which type of energy is stored in a compressed spring?

- A) Heat energy
- B) Kinetic energy
- C) Elastic potential energy
- D) Sound energy

Answer: C) Elastic potential energy

30. Which scientist formulated the law of universal gravitation?

- A) Albert Einstein
- B) Galileo Galilei
- C) Isaac Newton
- D) Michael Faraday

Answer: C) Isaac Newton

31. What is the SI unit of pressure?

- A) Newton
- B) Pascal
- C) Joule
- D) Watt

Answer: B) Pascal

32. Which physical quantity is measured in kilograms?

- A) Weight
- B) Mass
- C) Force
- D) Power

Answer: B) Mass

33. Which law explains why a boat floats on water?

- A) Newton's First Law
- B) Archimedes' Principle
- C) Ohm's Law
- D) Boyle's Law

Answer: B) Archimedes' Principle

34. The tendency of a body to resist changes in its state of motion is called:

- A) Friction
- B) Momentum

- C) Inertia
- D) Gravity

Answer: C) Inertia

35. Which instrument is used to measure atmospheric humidity?

- A) Hygrometer
- B) Thermometer
- C) Barometer
- D) Lactometer

Answer: A) Hygrometer

36. Which color of light deviates the least when passing through a prism?

- A) Violet
- B) Blue
- C) Green
- D) Red

Answer: D) Red

37. The splitting of white light into its constituent colors is called:

- A) Reflection
- B) Refraction
- C) Dispersion
- D) Diffraction

Answer: C) Dispersion

38. Which type of wave is sound?

- A) Electromagnetic wave
- B) Transverse wave
- C) Longitudinal wave
- D) Radio wave

Answer: C) Longitudinal wave

39. Which material is attracted strongly by a magnet?

- A) Copper
- B) Aluminium
- C) Iron
- D) Plastic

Answer: C) Iron

40. Which device converts mechanical energy into electrical energy?

- A) Electric motor
- B) Generator
- C) Battery
- D) Transformer

Answer: B) Generator

41. The SI unit of electric charge is:

- A) Ampere
- B) Volt
- C) Coulomb
- D) Ohm

Answer: C) Coulomb

42. Which law states that voltage is equal to current multiplied by resistance?

- A) Newton's Law
- B) Ohm's Law
- C) Faraday's Law
- D) Coulomb's Law

Answer: B) Ohm's Law

43. Which of the following is an insulator?

- A) Copper
- B) Silver
- C) Rubber
- D) Aluminium

Answer: C) Rubber

44. Which phenomenon causes an echo?

- A) Refraction of sound
- B) Reflection of sound
- C) Absorption of sound
- D) Diffraction of sound

Answer: B) Reflection of sound

45. The SI unit of momentum is:

- A) $\text{kg}\cdot\text{m/s}$
- B) Newton
- C) Joule
- D) Pascal

Answer: A) $\text{kg}\cdot\text{m/s}$

46. Which scientist discovered electromagnetic induction?

- A) Isaac Newton
- B) Michael Faraday
- C) James Clerk Maxwell
- D) Thomas Edison

Answer: B) Michael Faraday

47. Which device is used to step up or step down alternating current (AC) voltage?

- A) Electric motor
- B) Generator
- C) Transformer
- D) Ammeter

Answer: C) Transformer

48. Which type of energy is possessed by water stored in a dam?

- A) Kinetic energy
- B) Sound energy
- C) Potential energy
- D) Electrical energy

Answer: C) Potential energy

49. Which planet has the strongest gravitational pull in the Solar System?

- A) Earth
- B) Mars
- C) Jupiter
- D) Venus

Answer: C) Jupiter

50. Which scientist is known as the "Father of Modern Physics"?

- A) Isaac Newton
- B) Albert Einstein
- C) Galileo Galilei
- D) Niels Bohr

Answer: B) Albert Einstein