



## 200+ General Science (Physics) Questions Asked in SSC Previous Year's Question Papers

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## 200+ General Science (Physics) Questions Asked in SSC Previous Year's Question Papers

### General Science (Physics)

1. What is the SI unit of Force?

- A. Pascal
- B. Boyle
- C. Newton
- D. Watt

ANSWER: C. Newton

2. The names of wright brothers credited with inventing the Aeroplane were?

- A. William and Oliver
- B. William and Orville
- C. Wilbur and Orville
- D. Wilbur and Oliver

ANSWER: C. Wilbur and Orville

3. Inertia is proportional to

- A. Mass
- B. Weight
- C. Length
- D. Height

ANSWER: A. Mass

4. Fulminology is the study of?

- A. Volcanic eruptions
- B. Lightening
- C. Natural gases
- D. Atmosphere

ANSWER: B. Lightening

5. What is the unit of Power of lens?

- A. Joule
- B. Dioptre
- C. KWH

D. Watt

ANSWER: B. Dioptre

Dioptre is the SI unit for measuring power of a lens.

6. When milk is churned the cream separates from it due to

- A. Frictional force
- B. Centrifugal force
- C. Gravitational force
- D. Viscous forces

ANSWER: B. Centrifugal force

7. Water is used in car radiator because of it's?

- A. Low density
- B. Easy availability
- C. High specific heat capacity
- D. Low boiling point

ANSWER: C. High specific heat capacity

8. Water cannot be used to extinguish fire caused by electric current because

- A. It may cause electrocution
- B. It may cause hydrolysis
- C. It may cause electrolysis
- D. It may spoil the wiring

ANSWER: A. It may cause electrocution

9. The surface tension of water on adding detergent to it

- A. Increases
- B. Decreases

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- C. No change
- D. Becomes zero

ANSWER: **B. Decreases**

**10. Which of the following is optical illusion?**

- A. Rainbow
- B. Earthshine
- C. Halo
- D. Mirage

ANSWER: **D. Mirage**

**11. An athlete runs before long jump to get advantage on**

- A. Inertia of motion
- B. Frictional force
- C. Moment of force
- D. Principle of moments

ANSWER: **A. Inertia of motion**

**12. The sparkling of a diamond is due to**

- A. Total internal reflection of light
- B. Interference of light
- C. Polarization of light
- D. Refraction of light

ANSWER: **A. Total internal reflection of light**

Sparkling of diamond is due to total to total internal reflection inside it. Total internal reflection only takes place when light travels from a denser to a rarer medium.

**13. 1 Horsepower has how many Watt?**

- A. 766 Watt
- B. 746 Watt
- C. 756 Watt

- D. 736 Watt

ANSWER: **B. 746 Watt**

**14. What will be the size of image formed by a concave mirror when an object placed between pole and focus?**

- A. Same size
- B. Enlarged
- C. Point Size
- D. Diminished

ANSWER: **B. Enlarged**

**15. Twinkling of stars is mainly due to which phenomenon?**

- A. Diffraction
- B. Refraction
- C. Reflection
- D. Advection

ANSWER: **B. Refraction.**

**16. Rise of oil a wick is due to**

- A. Density of the oil
- B. Viscosity of the oil
- C. Capillary action
- D. Pressure of the oil

ANSWER: **C. Capillary action**

The oil in the wick of an oil lamp rises up due to capillary action. This effect is due to surface tension of liquids. The wick here acts as a capillary tube.

**17. The audio signals of TV are**

- A. Amplitude modulated
- B. Frequency modulated
- C. Unmodulated

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D. Velocity modulated

ANSWER: B. Frequency modulated

18. In nuclear reactor one of the following is used as a fuel

- A. Coal
- B. Uranium
- C. Radium
- D. Diesel

ANSWER: B. Uranium

19. The density of the liquid when heated

- A. Decreases
- B. Increases
- C. Does not change
- D. May increase or decrease depending on pressure

ANSWER: A. Decreases

20. In a railway track two rails rejoined end to end with a gap in between them because

- A. Steel can be saved
- B. Accidents due to contraction in winter can be avoided
- C. Air gaps are necessary for bearing the weight of running train
- D. Accidents due to expansion in summer can be avoided

ANSWER: D. Accidents due to expansion in summer can be avoided

21. Ball pen functions on the principle of

- A. Viscosity
- B. Boyles Law
- C. Gravitational force

D. Surface tension

ANSWER: D. Surface tension

22. 1 pound = \_\_\_\_\_ ounces

- A. 16
- B. 18
- C. 12
- D. 20

ANSWER: A. 16

23. Which of the following device is used to measure humidity?

- A. Hydrometer
- B. Hygrometer
- C. Psycho Meter
- D. Anemometer

ANSWER: B. Hygrometer

24. At what temperature (in Fahrenheit) pure water freezes?

- A. 32
- B. 0
- C. 48
- D. 37

ANSWER: A. 32

25. Process of gaining electrons is known as \_\_\_\_\_

- A. Oxidation
- B. Reduction
- C. Radiation
- D. Both oxidation and reduction

ANSWER: B. Reduction

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The chemical reaction which involves addition of hydrogen or removal of oxygen or gain of electrons is called reduction.

**26. Source of Energy from the sun is?**

- A. Nuclear fission
- B. Nuclear fusion
- C. Photoelectric effect
- D. Cherenkov effect

ANSWER: B. Nuclear fusion

**27. Which of the following metal is generally used for making filaments of bulb?**

- A. Fe
- B. An
- C. Ag
- D. W

ANSWER: D. W

**28. Tungsten is used for the construction of filament because of**

- A. High melting point
- B. Low specific resistance
- C. High light emitting power
- D. High specific resistance

ANSWER: A. High melting point

**29. An oscilloscope is an instrument in which main element is**

- A. Screen
- B. Cathode ray tubes
- C. Probes
- D. None of the above

ANSWER: B. Cathode ray tubes

**30. What is the measuring unit of length of light waves?**

- A. Barrel
- B. Angstrom
- C. Knot
- D. Carat

ANSWER: B. Angstrom

**31. Which one of the following is a bad thermal conductor?**

- A. Aluminum
- B. Copper
- C. Glass
- D. Silver

ANSWER: C. Glass

**32. Which of the following energy is NOT from sea?**

- A. Wave energy
- B. Geothermal energy
- C. Ocean Thermal energy
- D. Tidal energy

ANSWER: B. Geothermal energy

**33. Which of the following is NOT a characteristic of sound waves?**

- A. Velocity
- B. Nature
- C. Wavelength
- D. Amplitude

ANSWER: B. Nature

**34. What is the SI unit of Momentum?**

- A. Ampere
- B. Kg m/sec

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- C. Joule
- D. Kg m

ANSWER: **B. Kg m/sec**

35. Which of the following physical quantity SI unit pairs is correctly matched?

- A. Power-Kilogram
- B. Inductance –Henry
- C. Capacitance- Ohm
- D. Force- meter

ANSWER: **B. Inductance-Henry**

Power-Watt  
Inductance –Henry  
Capacitance- Farad  
Force- Newton

36. Which of the following is the instrument used in submarines to view objects above sea level?

- A. Odometer
- B. Pyrheliometer
- C. Hypsometer
- D. Periscope

ANSWER: **D. Periscope**

37. In Physics, What is Hubble Constant?

- A. Total energy of Electromagnetic radiations
- B. Permittivity in the free space
- C. Unit of measurement which explains the expansion of universe
- D. Velocity of light in vacuum

ANSWER: **C. Unit of measurement which explains the expansion of universe**

38. Bats search out prey and fly in dark night by emitting and detecting reflections of which type of sound waves?

- A. Sonic waves
- B. Hypersonic waves
- C. Subsonic waves
- D. Ultrasonic waves

ANSWER: **D. Ultrasonic waves**

39. When speed of an object exceeds the velocity of sound, Then it said to be moving with \_\_\_speed

- A. Subsonic Speed
- B. Supersonic Speed
- C. Ultrasonic speed
- D. 1 Mach speed

ANSWER: **B. Supersonic Speed**

40. Mirror used by dentist to see large images of teeth of patients is?

- A. Zig Zag Mirror
- B. Plane Mirror
- C. Convex Mirror
- D. Concave Mirror

ANSWER: **D. Concave Mirror**

41. Car moving on a straight road is an example of \_\_\_ motion?

- A. Periodic
- B. Curvilinear
- C. Rectilinear
- D. Random

ANSWER: **C. Rectilinear**

42. Kepler's first law is known law of \_\_\_

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- A. Ellipse
- B. Harmonics
- C. Motion
- D. Equal Area

ANSWER: A. Ellipse

43. Who founded and named the science of electromagnetism?

- A. James Clerk
- B. Michael Faraday
- C. Andre Marie Ampere
- D. Hans Christian Oersted

ANSWER: C. Andre Marie Ampere

44. Pierre Curie shared the 1903 Nobel Prize in Physics with his wife, Marie Curie, and Henri Becquerel for their Discoveries related to

- A. Radioactivity
- B. X-ray
- C. Thermodynamics
- D. Mirror images

ANSWER: A. Radioactivity

45. Who received the very first Nobel Prize in Physics in 1901 for his discovery of X-rays?

- A. Wilhelm Rontgen
- B. William Crookes
- C. Louis Pasteur
- D. William Thomson

ANSWER: A. William Rontgen

46. A nautical mile is equal to

- A. 2000 metres
- B. 1852 metres
- C. 1672 metres

- D. 2450 metres

ANSWER: B. 1852 metres

47. Which instrument is used to measure the intensity of electromagnetic radiation by an unknown source in terms of source?

- A. Dynamometer
- B. Photometer
- C. Calipers
- D. Ammeter

ANSWER: B. Photometer

48. Rajat has hypermetropia. What type of lens will the ophthalmologist recommend to correct his vision?

- A. Bifocal
- B. Concave
- C. Convex
- D. Progressive

ANSWER: C. Convex

49. The term\_\_\_ is prefixed to scientific terms to describe something that is constant?

- A. Photo
- B. Quasi
- C. Mega
- D. Iso

ANSWER: D. Iso

50. Wind turbines convert\_\_\_\_\_ energy into mechanical power?

- A. Gravitational
- B. Kinetic
- C. Nuclear
- D. Chemical

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ANSWER: **B. Kinetic**

51. The spectrum of light was first explained by?

- A. Neils Bohr
- B. Issaac Newton
- C. Albert Einstein
- D. Galileo Galilei

ANSWER: **B. Issac Newton**

52. Which of the following would you associate with diopetre?

- A. Urology
- B. Ophthalmology
- C. Neurology
- D. Oncology

ANSWER: **B. Ophthalmology**

53. Ohm's law states that

- A. Electric current=Voltage/Restistance
- B. Power=Voltage+Current
- C. Power=Voltage/Current
- D. Electric current=Resistance/Voltage

ANSWER: **A. Electric current=Voltage/Restistance**

Ohm's law states that the current through a conductor between two points is directly proportional to the voltage across the two points.

54. Which one of the following is a bad thermal conductor?

- A. Aluminum
- B. Copper
- C. Glass
- D. Silver

ANSWER :**C.Glass**

55. What is the SI unit of pressure?

- A. Newton
- B. Weber
- C. Pascal
- D. Henry

ANSWER: **C. Pascal**

Pressure is a force applied perpendicular to the surface of an object per area over which that force is distributed. Its S.I. unit is Pascal (Pa) which is equal to one newton per meter square. Other units of pressure are atm (i.e. standard atmospheric pressure), torr, etc.

56. Meter in a vehicle that calculates distance covered by the vehicle is called \_\_\_\_\_.

- A. Speedometer
- B. Odometer
- C. Thermometer
- D. Kilometre

ANSWER: **B. Odometer**

57. What is the unit of resistance?

- A. Ohm
- B. Farad
- C. Henry
- D. Weber

ANSWER: **A. Ohm**

58. What is the other name of Galileo's law of falling bodies?

- A. Law of motion
- B. Newton's first law

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- C. Newton's second law
- D. Newton's third law

ANSWER: **B. Newton's first law**

59. Which of the following is not a vector quantity?

- A. Momentum
- B. Displacement
- C. Torque
- D. Speed

ANSWER: **D. Speed**

60. Gravitational force is maximum at which of the following places?

- A. The equator
- B. The tropic of cancer
- C. The tropic of Capricorn
- D. The poles

ANSWER: **D. The poles**

61. The phenomena of raising the outer edge of the curved roads above the inner edge to provide necessary centripetal force to the vehicles to take a safe turn is called \_\_\_\_\_.

- A. Banking of roads
- B. Cornering of roads
- C. Elevation of roads
- D. tempering of roads

ANSWER: **A. Banking of roads**

62. Which of the following is not a vector quantity?

- A. Acceleration
- B. Electric current
- C. Force

- D. Velocity

ANSWER: **B. Electric current**

63. What is the reason for formation of Mirage in desert?

- A. Refraction of light
- B. Reflection of light
- C. Total internal reflection of light
- D. Both Refraction and Total internal reflection of light

ANSWER: **C. Total internal reflection of light**

64. The bending of light when it passes around a corner or a slit is due to \_\_\_\_\_.

- A. Reflection
- B. Refraction
- C. Diffraction
- D. Total internal reflection

ANSWER: **C. Diffraction**

65. Which one of the following is not a property of electromagnetic waves?

- A. Electromagnetic waves do not show interference and diffraction.
- B. Oscillating electric field and magnetic field are perpendicular to each other.
- C. Electromagnetic waves are transverse waves
- D. Electromagnetic waves do not require a medium to propagate.

ANSWER: **A. Electromagnetic waves do not show interference and diffraction**

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66. It is difficult to fix a nail on a freely suspended wooden frame, which law supports this statement?

- A. Law of inertia
- B. Newton's second law
- C. Newton's third law
- D. Pascal's law

ANSWER: C. Newton's third law

67. What is the SI unit of frequency?

- A. Newton
- B. Watt
- C. Farad
- D. Hertz

ANSWER: D. Hertz.

68. Convex mirror is generally used in \_\_\_\_\_.

- A. Solar cookers
- B. Ophthalmoscope
- C. Reflector for head light
- D. Rear view mirror

ANSWER: D. Rear view mirror

69. Speed of light is maximum in \_\_\_\_\_.

- A. Vacuum
- B. Solids
- C. Liquids
- D. Gases

ANSWER: A. Vacuum

70. What is the SI unit of electric current?

- A. Newton
- B. Joule
- C. Ampere
- D. Watt

ANSWER: C. Ampere

71. Soap bubble attains spherical shape due to \_\_\_\_\_.

- A. Inertia
- B. Pressure
- C. Surface tension
- D. Viscosity

ANSWER: C. Surface tension

72. If objects appear enlarged and inverted in a rear view mirror, then which type of mirror is used?

- A. Concave
- B. Convex
- C. Cylindrical
- D. Plane

ANSWER: A. Concave

73. Why does water tank appear shallower when viewed from the top?

- A. Due to reflection
- B. Due to refraction
- C. Due to diffraction
- D. Due to total internal reflection

ANSWER: B. Due to refraction

74. Which colour is formed when Red and Green are mixed?

- A. Light Blue
- B. Yellow
- C. White
- D. Grey

ANSWER: B. Yellow

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75. At which of the following place, weight of an object is maximum?

- A. At poles
- B. At equator
- C. At tropic of Capricorn
- D. At tropic of cancer

ANSWER: A. At poles

76. Electric Motor converts \_\_\_\_\_ energy to mechanical energy.

- A. sound
- B. mechanical
- C. chemical
- D. electrical

ANSWER: D. Electrical

77. Optical fibre works on which of the following principle of light?

- A. Reflection
- B. Refraction
- C. Diffraction
- D. Total internal reflection

ANSWER: D. Total internal reflection

78. Which among the following determines the pitch of a sound?

- A. Amplitude
- B. Frequency
- C. Loudness
- D. Wavelength

ANSWER: B. Frequency.

79. Which phenomenon shows the particle nature of light?

- A. Diffraction

- B. Interference
- C. Photoelectric effect
- D. Polarisation

ANSWER: C. Photoelectric effect

80. Which colour is formed when Blue and Green are mixed?

- A. Cyan
- B. Brown
- C. Black
- D. Violet

ANSWER: A. Cyan

81. What is the SI unit of intensity of sound?

- A. Decibel
- B. Newton
- C. Hertz
- D. Tesla

ANSWER: A. Decibel

82. What is the SI unit of heat energy?

- A. Joule
- B. Newton
- C. Calorie
- D. Kelvin

ANSWER: A. Joule

83. What is the value of the Least Distance of Distinct vision (in cm) for a normal human being?

- A. 2.5
- B. 25
- C. 58
- D. 60

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ANSWER: B.25

84. On which principle does the hydraulic lift works?

- A. Newton's law
- B. Pascal's law
- C. Archimedes's law
- D. Joule's law

ANSWER: B. Pascal's law

85. At what temperature (in degree Celsius), the numerical values on Celsius and Fahrenheit scales become equal?

- A. -40
- B. 40
- C. 273
- D. -273

ANSWER: A.-40

The formula conversion between Fahrenheit and Celsius is given below:  $F = 9/5 * C + 32$ . The Fahrenheit and Celsius scales have one point at which they intersect. They are equal at  $-40^{\circ}C$  and  $-40^{\circ}F$ .

86. Which of the following pair is INCORRECT?

- I. Parsec – Distance
  - II. Barrel - Liquid
  - III. Light year – Time
- A. Only III
  - B. Only I and III
  - C. Only II
  - D. All are correct

ANSWER: A. Only III

Light year is the measure of distance and not that of time. It actually means the distance which the light can cover in a year. Based on the definition, one light year equals to  $95 * 10^{12}$  Kilometers.

87. What is the SI unit of Power?

- A. Boyle
- B. Watt
- C. Newton
- D. Pascal

ANSWER: B. Watt

The SI unit of power is called as Watt. This unit is equal to one per joule per second. Moreover the dimension of power involves that energy is divided by time.

88. \_\_\_\_\_ acts as a shield absorbing ultraviolet radiation from the sun.

- A. Chlorofluorocarbons
- B. Stratosphere
- C. Greenhouse
- D. All of these

ANSWER: B. Stratosphere

The ozone layer or ozone shield is a region of Earth's stratosphere that absorbs most of the Sun's ultraviolet radiation. Ozone and oxygen molecules in the stratosphere absorb ultraviolet light from the sun, providing a shield that prevents this radiation from passing to the earth's surface. That's why, in this question according to the options, Stratosphere is the correct answer.

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89. Kelvin (K) is the unit of measurement of \_\_\_\_\_.

- A. Density
- B. Pressure
- C. Mass
- D. Temperature

**ANSWER: D. Temperature**

Kelvin (K) is the unit of measurement of Temperature. When compared to other units of temperature measurement, 0 K is equivalent to  $-273.15^{\circ}\text{C}$  or  $-459.67^{\circ}\text{F}$ .

90. If the orbit of a planet is an ellipse then what is the point at which the Sun is located called?

- A. Centre
- B. Circumcentre
- C. Incentre
- D. Focus

**ANSWER: D. Focus**

The orbit of a planet around the Sun is not a perfect circle, it is an ellipse. The Sun location is called as the Focus of ellipse. A focus is one of the point that determines the shape of an ellipse. The distance from focus to any point on the ellipse is always same.

91. The sliding friction is \_\_\_\_\_ than the static friction.

- A. double B
- B. same
- C. greater
- D. smaller

**ANSWER: D. Smaller**

92. Push or pull of an object is called \_\_\_\_\_.

- A. Pick
- B. Lift
- C. Force
- D. Shut

**ANSWER: C. Force**

In science, a push or a pull on an object with mass that causes it to change velocity is called a force. Force has magnitude as well as direction

93. In a qualitative way, the tendency of undisturbed objects to stay at rest or to keep moving with the same velocity is called \_\_\_\_\_.

- A. Force
- B. Acceleration
- C. Friction
- D. Inertia

**ANSWER: D. Inertia**

Inertia is the resistance of any physical object to any change in its state of motion. This includes changes to the object's speed, direction, or state of rest. Inertia is also defined as the tendency of objects to keep moving in a straight line at a constant velocity.

94. The time taken by a pendulum to complete one oscillation is called its?

- A. Maximum speed
- B. Average speed
- C. Time period
- D. Time interval

**ANSWER: C. Time period**

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95. The strength of a force is usually expressed by its \_\_\_\_\_.

- A. Motion
- B. Direction
- C. Interaction
- D. Magnitude

ANSWER: D. Magnitude.

96. Who discovered Proton?

- A. Ernest Rutherford
- B. Friedrich Miescher
- C. Henri Becquerel
- D. Henry Cavendish

ANSWER: A. Ernest Rutherford

97. If the mass of an object is 60 kgs, what will be its weight on the moon? (N=Newton)

- A. 60N
- B. 600N
- C. 98N
- D. 10N

ANSWER: C. 98N

Given mass = 60 kg As we know, Weight= mass  $\times$  acceleration due to gravity On moon the gravity is approx  $1/6$  as compared to earth that is  $9.8/6\text{m/s}^2$  Weight of that object on moon =  $60 \times 9.8/6 = 98\text{ N}$

98. The side mirrors of vehicles are of which type of mirrors?

- A. Convex
- B. Concave
- C. Plane
- D. Inverted

ANSWER: A. Convex

99. The SI unit of acceleration is \_\_\_\_\_.

- A. Meters per seconds square
- B. Meters per second
- C. Seconds per meter
- D. Seconds per meter square

ANSWER: A. Meter per Second Square

100. If the force applied on the object is in the direction opposite to the direction of motion, the speed of the object \_\_\_\_\_.

- A. increases
- B. stops
- C. decreases
- D. no effect

ANSWER: C. Decreases

101. Contact force is another name for \_\_\_\_\_.

- A. Friction
- B. Magnetic force
- C. Electrostatic force
- D. Muscular force

ANSWER: A. Friction

102. An image that can be obtained on a screen is called \_\_\_\_\_?

- A. Virtual image
- B. Real image
- C. Inverted image
- D. Erect image

ANSWER; B. Real image

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103. The distance-time graph for the motion of an object moving with a constant speed is a

- \_\_\_\_\_
- A. Dot
- B. Circle
- C. Straight Line
- D. Curve

ANSWER: C. Straight Line

104. The reflection formed by the plane mirror is \_\_\_\_\_.

- A. Vertical inversion
- B. a real image
- C. lateral inversion
- D. an enlarged image

ANSWER: C. Lateral inversion

105. TV remote controls work on the principle of \_\_\_\_\_.

- A. Ultrasonic waves
- B. Laser technology
- C. Bluetooth technology
- D. Infrared waves

ANSWER: D. Infrared waves

106. \_\_\_\_\_ codified the first two laws of thermodynamics and deduced that the absolute zero of temperature is  $-273.15^{\circ}\text{C}$ . He was honored for this with the naming of the Kelvin temperature scale.

- A. William crook
- B. William Thomson
- C. Luis Alvarez
- D. Robert Hooke

ANSWER: B. William Thomson

107. The energy derived from the heat of Earth is called \_\_\_\_\_.

- A. Biogas
- B. Geothermal Energy
- C. Solar Energy
- D. Tidal Energy

ANSWER: B. Geothermal Energy

108. What is the unit of measure of a magnetic field?

- A. Tesla
- B. Ohm
- C. Cobalt
- D. Ampere

ANSWER: A. Tesla

109. The slope of a Distance-Time graph shows \_\_\_\_\_.

- A. Acceleration
- B. Momentum
- C. Mass
- D. Speed

ANSWER: D. Speed

110. What is the unit of the Physical quantity: "Jerk"?

- A. Meter Second
- B. Meter per Second cube
- C. Meter per Second cube square
- D. Meter per Second

ANSWER: B. Meter per Second cube

111. Find the power of a convex lens if the image formed is at a distance of 25 cm from the lens when the object is placed on the other

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side of the lens at 12 cm from the optical centre?

- A. -4.33 diopters
- B. 12.33 diopters
- C. -12.33 diopters
- D. 4.33 diopters

**ANSWER: B. 12.33 diopters**

112. The unit of measurement of a length is \_\_\_\_\_

- A. Hertz
- B. Byte
- C. Bit
- D. Millimeter

**ANSWER: D. Millimeter.**

113. Which of the following physical quantities is a scalar quantity?

- A. Weight
- B. Impulse
- C. Young's Modulus
- D. Acceleration

**ANSWER: C. Young's modulus**

114. \_\_\_\_\_ is a measure of the moisture in air.

- A. Density
- B. Viscosity
- C. Impurity
- D. Humidity

**ANSWER: D. Humidity**

115. What is the unit of the physical quantity "Young's modulus"?

- A. Newton
- B. erg
- C. joule

D. Pascal

**ANSWER: D. Pascal**

116. Instrument for measuring low temperatures is called \_\_\_\_\_.

- A. Diagonometer
- B. Cryometer
- C. Chromatometer
- D. Cymometer

**ANSWER: B. Cryometer**

The instrument for measuring low temperature is called Cryometer. These are special type thermometer which is used to measure very low temperature.

117. Upward force on a floating body is called \_\_\_\_\_

- A. jerk
- B. Buoyant force
- C. Archimedes force
- D. Anti-gravity

**ANSWER: B. Buoyant force**

Upward force on a floating body is called buoyant force. It is an upward force exerted by a fluid that opposes the weight of an immersed body.

118. Instrument for measuring wind velocity is called \_\_\_\_\_

- A. Coulombmeter
- B. Anemometer
- C. Cyanometer
- D. Chronometer

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ANSWER: B. Anemometer

119. Density of water is maximum at \_\_\_\_\_.

- A. 12 degree Celsius
- B. 8 degree Celsius
- C. 4 degree Celsius
- D. 0 degree Celsius

ANSWER: C. 4 degree Celsius

120. Rate of change of momentum is \_\_\_\_\_.

- A. Area
- B. Pressure
- C. Force
- D. Velocity

ANSWER: C. Force

121. Instrument for measuring work performed is called \_\_\_\_\_.

- A. Eudiometer
- B. Anemometer
- C. Hyetometer
- D. Ergometer

ANSWER: D. Ergometer

122. Farad is unit of \_\_\_\_\_.

- A. Capacitance
- B. Reactance
- C. Electric charge
- D. Electric conductance

ANSWER: A. Capacitance

123. Why metals conduct electricity?

- A. Because of low melting point
- B. Because of high tensile strength
- C. Because of free electrons

D. Because of high atomic density

ANSWER: C. Because of free electrons

124. Why does a fountain pen leak in aeroplane flying at a height?

- A. Because of reduced viscosity of the ink in the pen
- B. Because of increased viscosity of the ink in the pen
- C. Because of higher atmospheric pressure outside the pen
- D. Because of lower atmospheric pressure outside the pen

ANSWER: D. Because of lower atmospheric pressure outside the pen

125. What is the unit of relative density?

- A. kg/m
- B. kg/m<sup>2</sup>
- C. kg/m<sup>3</sup>
- D. It has no unit

ANSWER: D. It has no unit

126. Which among the following is false about alpha particles?

- A. They have high ionizing power
- B. They have high penetrating power
- C. They have high kinetic energy
- D. They are positively charged helium nuclei

ANSWER: B. They have high penetrating power

127. Unit of impedance is \_\_\_\_\_.

- A. ohm
- B. henry

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- C. tesla  
D. hertz

ANSWER: A. Ohm

128. Rate of work done is \_\_\_\_\_  
A. Energy  
B. Power  
C. Momentum  
D. Impulse

ANSWER: B. Power

129. If an object is thrown upwards, what will be its velocity, when it reaches its maximum height?  
A. 0 m/s  
B. 4.9 m/s  
C. 14.7 m/s  
D. 20 m/s

ANSWER: A.0 m/s

130. Air expands when it \_\_\_\_\_.  
A. is cooled  
B. is heated  
C. is under pressure  
D. becomes more humid

ANSWER: B. is heated

131. Human beings 'hearing range is.....  
A. 50 to 50,000 Hz  
B. 40 to 40,000 Hz  
C. 30 to 30,000 Hz  
D. 20 to 20,000 Hz

ANSWER: D .20 to 20,000 Hz

132. Instrument for measuring thickness or amount of rainfall is called  
A. Lucimeter  
B. Galactometer  
C. Hyetometer  
D. Hygrometer

ANSWER: C. Hyetometer

133. If ice floating on water in a vessel melts, the water level in the vessel \_\_\_\_\_.  
A. increases  
B. does not change  
C. first increases before decreasing  
D. decreases

ANSWER: B. Does not change

134. Device used for the detection and measurement of all types of radiation (alpha, beta and gamma)  
A. Geiger counter  
B. Polarimeter  
C. Calorimeter  
D. Radiometer

ANSWER: A. Geiger counter

135. What is the unit of the physical quantity Entropy?  
A. watt per kelvin  
B. newton per kelvin  
C. Pascal per kelvin  
D. joule per Kelvin

ANSWER: D. Joule per Kelvin

136. Who invented the contact lens?  
A. Enrico Fermi

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- B. Adolf Gaston Eugen Fick
- C. Sandford Fleming
- D. Benoit Fourneyron

ANSWER: B. Adolf Gaston Eugen Fick

137. Which of the following is caused by atmospheric refraction of light?
- A. Mirage
  - B. Twinkling of stars at night
  - C. Sun appearing higher in the sky than it actually is
  - D. All of these

ANSWER: D. All of these

138. Which of the following are the highest-frequency electromagnetic waves?
- A. Gamma Rays
  - B. Radio Waves
  - C. Ultraviolet Rays
  - D. Microwaves

ANSWER: A. Gamma Rays

139. With reference to Remote Sensing Technology, what does LIDAR stand for?
- A. Light Detection and Ranging
  - B. Light Direction and Revolving
  - C. Light Dimension and Reflection
  - D. Light Distraction and Refraction

ANSWER: A. Light Detection and Ranging

140. The SI unit of radioactivity is \_\_\_\_\_
- A. Ampere
  - B. Becquerel
  - C. Decibel
  - D. Cobalt

ANSWER: B. Becquerel

141. Which one of the following is the most elastic?
- A. Iron
  - B. Rubber
  - C. Plastic
  - D. Steel

ANSWER: D. Steel

142. The Young's Modulus for a perfect rigid body is?
- A. Zero
  - B. Infinite
  - C. Less than 1
  - D. Greater than 1

ANSWER: B. Infinite

143. Curie point is the temperature at which
- A. Matter becomes radioactive
  - B. A metal loses its permanent magnetic properties.
  - C. A metal loses conductivity
  - D. Transmutation of metal occurs.

ANSWER: B. A metal loses its permanent magnetic properties.

144. Supersonic air planes create a shock wave called
- A. Transition wave
  - B. Ultrasound
  - C. Transverse wave
  - D. Sonic boom

ANSWER: D. Sonic boom

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145. A good conductor while carrying current is
- negatively charged
  - positively charged
  - electrically neutral
  - alternately charged positive and negative

ANSWER: A. Negatively charged

146. Light year is the
- Distance travelled by light in one year
  - Mean distance between the Earth and the Sun
  - Mean distance between the Earth and the Moon
  - Mean distance between the Sun and any planet

ANSWER: A. Distance travelled by light in one year

147. 'Bar' is the unit of
- Heat
  - Temperature
  - Current
  - Atmospheric Pressure

ANSWER: D. Atmospheric Pressure

148. The cathode rays are
- Streams of electrons
  - Streams of positively charged particles
  - Streams of neutral particles
  - Electromagnetic Waves

ANSWER: A. Streams of electrons

149. A freely suspended bar magnet always remains in the direction
- North - South

- East - West
- South - West
- Not - certain

ANSWER: A. North – South

150. The SI unit of the specific resistance is
- Ohm/metre
  - Ohm/coolomb
  - Ohm - metre
  - Ohm

ANSWER: C. Ohm-metre

151. What is the value of  $g$ ? ( $g$  stands for acceleration due to gravitational force of the earth)

- 9.8 m/s<sup>2</sup>
- 6.7 m/s<sup>2</sup>
- 5.2 m/s<sup>2</sup>
- 7.8 m/s<sup>2</sup>

ANSWER: A. 9.8 m/s<sup>2</sup>

152. Which of the following units is used for the measurement of Luminous Intensity?

- Candlea
- Mole
- Ampere
- Kelvin

ANSWER: A. Candela

153. One calorie of heat energy is equivalent to approximately \_\_\_\_\_ joules of mechanical energy.

- 0.24
- 0.48

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- C. 4.2
- D. 2.4

ANSWER: C.4.2

154. 'mho' is the unit of \_\_\_\_\_ of a substance.

- A. conductance
- B. resistivity
- C. resistance
- D. Conductivity

ANSWER: A. Conductance

155. Identify the unit of measurement of energy.

- A. Volt
- B. Watt
- C. Joule
- D. Ampere

ANSWER: C. Joule

156. Who is the first Indian to be awarded the Nobel Prize in Physics?

- A. Subramanyan Chandrasekhar
- B. Venkatraman Ramakrishnan
- C. Har Gobind Khorana
- D. Chandrasekhara Venkata Raman

ANSWER: D. CV. Raman

157. The discovery and understanding of electromagnetic induction is based on a long series of experiments carried out by \_\_\_\_\_.

- A. Einstein
- B. Rutherford

- C. Planck and Fermi
- D. Faraday and Henry

ANSWER: D. Faraday and Henry

158. The charge has to be passed \_\_\_\_\_ to obtain maximum work from a galvanic cell.

- A. proportionately
- B. reversibly
- C. uniformly
- D. inversely

ANSWER: B. reversibly

159. A set of equations involving electric and magnetic fields, and their sources, the charge and current densities are known as \_\_\_\_\_ equations.

- A. Einstein's
- B. Newton's
- C. Maxwell's
- D. Bhor's

ANSWER: C. Maxwell's

160. Solids can be classified as \_\_\_\_\_ on the basis of the nature of order present in the arrangement of their constituent particles.

- A. conductor or non-conductor
- B. metallic or non-metallic
- C. magnetic or non-magnetic
- D. crystalline or amorphous

ANSWER: D. Crystalline or amorphous

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161. 1 horse power is equal to approximately \_\_\_\_\_ watts.

- A. 500
- B. 250
- C. 1000
- D. 746

ANSWER: D. 746

162. The difference in temperature between two bodies is 30 degree centigrade. What is the difference in degree Fahrenheit?

- A. 72
- B. 54
- C. 64
- D. 86

ANSWER: B.54

$$F_1 - F_2 = 9/5(C_1 - C_2) = 9/5 * 30 = 54^{\circ}F.$$

163. 'Femto' means ten raised to the power of \_\_\_\_\_.

- A. -16
- B. -15
- C. -20
- D. -12

ANSWER: B.-15

164. In the Millikan's Oil Drop experiment, the oil drop is subjected to such forces whose nature does NOT fall under the category of

- A. electrostatic
- B. viscous

- C. gravitational
- D. magnetostatic

ANSWER: D. magnetostatic

165. Which one among the following measures the same quantity as that is measured by the SI unit 'pascal'?

- A. newton
- B. joule
- C. watt
- D. torr

ANSWER: D. torr

166. Which scientist/s proposed the theory of relativity?

- A. Charles Darwin
- B. Watson and Crick
- C. Albert Einstein
- D. John Dalton

ANSWER: C. Albert Einstein

167. Which of the following characteristics of sound is measured in hertz (Hz)?

- A. Loudness of the sound
- B. Intensity of the sound
- C. Wavelength of the sound
- D. Frequency of the sound

ANSWER: D. Frequency of the sound

168. What is the relative density of silver?

- A. 10.8

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- B. 9.5
- C. 10.4
- D. 7.2

ANSWER: A. 10.8

169. Which of the following scientists was awarded a Nobel Prize for his services to Theoretical Physics, and especially for his discovery of the Law of the Photoelectric Effect?

- A. Ernest Rutherford
- B. Thomas Edison
- C. Nikola Tesla
- D. Albert Einstein

ANSWER: D. Albert Einstein

170. Which of the following is the SI unit of thermodynamic temperature?

- A. Radian
- B. Celsius
- C. Kelvin
- D. Fahrenheit

ANSWER: C. Kelvin

171. What is the name of the force with which earth pulls everything towards itself?

- A. Resistance
- B. Gravity
- C. Thrust
- D. Air pressure

ANSWER: B. Gravity

172. Which of the following is NOT a good conductor of electricity?

- A. Copper
- B. Bromine
- C. Silver
- D. Graphite

ANSWER: B. Bromine

173. Since the clinical thermometer is designed to measure the temperature of the human body only, it displays the range of  $35^{\circ}\text{C}$  to \_\_\_\_\_

- A.  $46^{\circ}\text{C}$
- B.  $48^{\circ}\text{C}$
- C.  $44^{\circ}\text{C}$
- D.  $42^{\circ}\text{C}$

ANSWER: D.  $42^{\circ}\text{C}$

174. Among various electrical safety devices, one based on the heating effect of electric current is called a

- A. Capacitor
- B. Fuse
- C. Protective relay
- D. Surge protector

ANSWER: B. Fuse

175. In which medium does sound travel faster?

- A. Gas
- B. Vacuum
- C. Solid
- D. Liquid

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ANSWER: C. Solid

176. The solar tracking (moving in the sun's direction) of the sunflower is called \_\_\_\_\_.

- A. Phototropism
- B. Thigmotropism
- C. Hydrotropism
- D. Heliotropism

ANSWER: D. Heliotropism

177. Slate is a type of \_\_\_\_\_ rock.

- A. igneous
- B. volcanic
- C. metamorphic
- D. Sedimentary

ANSWER: C. Metamorphic

178. Which instrument is used to measure the level of humidity?

- A. Hydrometer
- B. Galvanometer
- C. Fathometer
- D. Hygrometer

ANSWER: D. Hygrometer.

180. Which scientist won the Nobel Prize in Physics in 1918 for the discovery of 'Energy Quanta'?

- A. Louis de Broglie
- B. James Chadwick
- C. Werner Heisenberg
- D. Max Karl Ernst Ludwig Planck

ANSWER: D. Max Karl Ernst Ludwig Planck

181. In the context of the contribution of scientists for which they were awarded Nobel Prize, which of the following pairs is INCORRECT?

- A. Zeeman Effect – Hendrik Lorentz
- B. Quantum mechanics – Galileo Galilei
- C. Light scattering – CV Raman
- D. Diffraction of X-rays – Max Von Laue

ANSWER: B. Quantum mechanics – Galileo Galilei

182. What did Wilhelm Conrad Roentgen discover?

- A. Thermodynamics
- B. X-Rays
- C. Electric bulb
- D. Conservation of electric charge

ANSWER: B. X-Rays

183. What is the atomic weight of Lithium?

- A. 9.012 amu, g/mol
- B. 10.811 amu, g/mol
- C. 4.003 amu, g/mol
- D. 6.941 amu, g/mol

ANSWER: D.6.941 amu, g/mol

184. Which of the following is NOT a scalar quantity?

- A. Volume
- B. Temperature
- C. Torque

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D. Time

ANSWER: C. Torque

185. 30°Celsius = \_\_\_\_\_ Kelvin (approximately)

- A. 303
- B. -243
- C. 130
- D. -30

ANSWER: A .303

Celsius to Kelvin Conversion To convert Celsius to Kelvin, add 273.15 to the Celsius value. For example, to convert 30 Celsius to Kelvin, add 273.15 to 30, that makes 30 Celsius is equal to 303.15 Kelvin.

186. Solubility of gases in liquids \_\_\_\_\_ with decrease in temperature.

- A. remains constant
- B. first decreases and then increases
- C. increases
- D. decreases

ANSWER: C. increases

187. The phenomenon of deviation of light rays from their original path, when they pass from one medium to another, is called \_\_\_\_\_.

- A. obstruction
- B. reflection
- C. diffraction
- D. refraction

ANSWER: D. Refraction

188. Which law of physics states that the force between the two electric charges reduces to a quarter of its former value when the distance between them is doubled?

- A. Coulomb's Law
- B. Pascal's Law
- C. Stefan's Law
- D. Hooke's Law

ANSWER: A. Coulomb's Law

189. \_\_\_\_\_ expansion makes the Eiffel Tower taller during summers.

- A. Thermal
- B. Gradient
- C. Gravitational
- D. Chemical

ANSWER: A. Thermal

190. What is the name of the phenomena in physics and astronomy which involves the splitting of a spectral line into two or more components of slightly different frequency when the light source is placed in a magnetic field?

- A. Lumen Effect
- B. Alpenglow Effect
- C. Zeeman Effect
- D. Raman Effect

ANSWER: C. Zeeman Effect

191. What is the name of the phenomena (driven by the scattering of light) in which mountain tops

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acquire a rosy or orange hue around sunrise and sunset?

- A. Brillouin scattering
- B. Circle of confusion
- C. Alpenglow
- D. Barrel distortion

**ANSWER: C. Alpenglow**

192. Which of these is the energy conversion that happens in the process called photosynthesis?

- A. Potential energy to chemical energy
- B. Light energy to chemical energy
- C. Heat energy to chemical energy
- D. Heat energy to light energy

**ANSWER: B. Light energy to chemical energy**

193. What is the colour of the light emitted by the Sun?

- A. White
- B. Red
- C. Yellow
- D. Orange

**ANSWER: A. White**

194. The total number of images formed by two mirrors inclined at  $120^\circ$  to each other is

- A. 4
- B. 3
- C. 2
- D. 1

**ANSWER: C.2**

The number of images formed by two adjacent plane mirrors depends on the angle between the mirror. If  $\theta$  (in degrees) is angle between the plane mirrors then number of images are given by,  $n = \frac{360}{\theta} - 1$ .

195. Which of the following is used as a substitute of mercury in thermometers?

- A. Arsenic
- B. Galinstan
- C. Selenium
- D. Bromine

**ANSWER: B. Galinstan**

196. Which among the following is NOT an insulator?

- A. Mercury
- B. Dry Paper
- C. Glass
- D. Ebonite

**ANSWER: A. Mercury**

197. The power of a lens is  $-2.0$  D. Here 'D' stands for

- A. dilation
- B. distance
- C. dioptre
- D. degree

**ANSWER: C. dioptre**

198. What is the velocity of sound in air?

- A. 220 m/sec

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- B. 343 m/sec
- C. 232 m/sec
- D. 110 m/sec

ANSWER: B. 343 m/sec

199. The rating for a fuse used in a household electric circuit is provided on the basis of:

- A. resistance
- B. current
- C. power
- D. voltage

ANSWER: B. current

200. Which of the following metals in pure form has the highest melting point?

- A. Tungsten
- B. Gold
- C. Copper
- D. Platinum

ANSWER: A. Tungsten

201. What will happen if a glass bottle is completely filled with water, sealed with a lid and put into a freezer?

- A. Nothing will happen
- B. Weight of the glass bottle will increase after water freezes into ice
- C. The glass bottle will be deformed due to atmospheric pressure on the bottle after the water freezes
- D. Eventually, the ice will burst the glass bottle

ANSWER: D. Eventually, the ice will burst the glass bottle

202. The term 'Askaryan effect' is associated with which functional area of science?

- A. Chemistry
- B. Biology
- C. Physics
- D. Geology

ANSWER: C. Physics

203. During the occurrence of thunder and lightning

- A. lightning is seen before thunder is heard
- B. lightning is seen at the same time as thunder is heard
- C. whether lightning is seen first or thunder is heard first will depend upon the distance and angle of the clouds vis-a-vis earth
- D. thunder is heard before lightning is seen

ANSWER: A. lightning is seen before thunder is heard

204. Twin paradox is associated with:

- A. hydrodynamics
- B. particle physics
- C. the theory of relativity
- D. quantum mechanics

ANSWER: C. the theory of relativity

205. Lactometers (used to determine the purity of a sample of milk) and hydrometers (used to determine

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the density of liquids) are based on the \_\_\_\_\_ principle.

- A. Uncertainty
- B. Archimedes
- C. Relativity
- D. Special Relativity

**ANSWER: B. Archimedes**

206. Which one of the following attributes is NOT true for uniform circular motion?

- A. The speed of the body remains constant
- B. The velocity of the body is continuously changing
- C. Velocity is always perpendicular to the radius of the circle
- D. The distance is always equal to the displacement

**ANSWER: D. The distance is always equal to the displacement**

207. Once a satellite has been launched into orbit, the only force governing its motion is the force of \_\_\_\_\_

- A. gravity
- B. elasticity
- C. friction
- D. fuel driven

**ANSWER: A. Gravity**

208. What would you call the area under the curve of a velocity-time graph included between itself and two time ordinates?

- A. Velocity
- B. Displacement
- C. Acceleration
- D. Speed

**ANSWER: B. Displacement**

209. The SI (International system of units) unit of length is \_\_\_\_\_.

- A. Mole
- B. meter
- C. Newton
- D. Sec

**ANSWER: B. Meter**

210. Which of the following instruments can detect the presence of a current in a circuit?

- A. Barometer
- B. Sphygmomanometer
- C. Magnetometer
- D. Galvanometer

**ANSWER: D. Galvanometer**

211. Which of the following helps keep Earth's atmosphere in place?

- A. Rotation of Earth on its axis
- B. Gravitational force of Earth
- C. Gravitational force of the sun
- D. Gravitational force of the moon

**ANSWER: B. Gravitational force of Earth**

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212. The \_\_\_\_\_ states that hot water freezes faster than cold water.

- A. Mpemba effect
- B. Heliocentric model
- C. Oxygen theory
- D. Big Bang theory

ANSWER: A. Mpemba effect

213. The heating of a coil is proportional to the nth power of the time of flow of current through it, where n is equal to:

- A. +2
- B. -1
- C. +1
- D. -2

ANSWER: C. +1

214. The famous Oersted's experiment and Michael Faraday's discovery of electromagnetic induction are separated by approximately how many years?

- A. 2
- B. 25
- C. 11
- D. 5

ANSWER: C. 11

215. Which among the following is NOT a fundamental SI unit?

- A. ampere
- B. candela
- C. tesla

D. kelvin

ANSWER: C. Tesla

216. 68 degree Fahrenheit is equal to how many degrees Centigrade?

- A. 24
- B. 16
- C. 20
- D. 10

ANSWER: C. 20

68 degrees Fahrenheit = 20 degrees Celsius,  $(68 - 32) \times 5/9 = 20^\circ\text{C}$

217. Which apparatus is used in the laboratory for measuring the heat capacity of a substance?

- A. Calorimeter
- B. Colorimeter
- C. Manometer
- D. Hygrometer

ANSWER: A. Calorimeter

218. Which Indian is the first recipient of the Fundamental Physics Prize?

- A. S N Bose
- B. C V Raman
- C. Homi J Bhabha
- D. Ashoke Sen

ANSWER: D. Ashoke Sen

219. In a nuclear fission, the difference in mass,  $\Delta m$  between the original nucleus and the product nuclei

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gets converted to energy  $E$  at a rate governed by the famous equation,  $E = \Delta m c^2$ , first derived by \_\_\_\_\_ in 1905.

- A. Isaac Newton
- B. Albert Einstein
- C. Galileo Galilei
- D. Marie Curie

**ANSWER: B. Albert Einstein**

220. Which of the following is the SI-derived unit for measuring electric conductance?

- A. Tesla
- B. Farad
- C. Siemens
- D. Henry

**ANSWER :C .Siemens**

221. Which of the following instruments is used for measuring radiation?

- A. Carburettor
- B. Geiger Counter
- C. Calliper
- D. Galvanometer

**ANSWER: B. Geiger Counter**

222. Which of the following is NOT dimensionless?

- A. Refractive index
- B. Specific gravity
- C. Angle of friction
- D. Specific resistance

**ANSWER: D. Specific resistance**

223. -40 degrees Fahrenheit is equal to how many degrees on the Celsius scale?

- A. -40
- B. 0
- C. +40
- D. -32

**ANSWER:-40**

224. The defect in image formation for the wandering of the focus on the principal axis of a lens is called \_\_\_\_\_.

- A. spherical aberration
- B. astigmatism
- C. chromatic aberration
- D. Distortion

**ANSWER: A. spherical aberration**

225. In a progressive wave, what is the phase difference (in degrees) between two points whose phases are opposite?

- A. 360
- B. 270
- C. 180
- D. 90

**ANSWER: C. 180**

226. The \_\_\_\_\_ crystal system is present in diamond.

- A. Orthorhombic



## 200+ General Science (Physics) Questions Asked in SSC Previous Year's Question Papers

- B. Monoclinic
- C. Triclinic
- D. Cubic

ANSWER: **D. Cubic**

227. Superconductivity was discovered by \_\_\_\_\_, who was also awarded the Noble Prize for Physics in 1913.

- A. Robert Bunsen
- B. Johannes Diderik van der Waals
- C. Heike Kamerlingh Onnes
- D. Gustav Kirchhoff

ANSWER: **C. Heike Kamerlingh Onnes**

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